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# Index to volume 104

## Author index*


### A

Aalberse RC (*see* Santos et al). 1999;104:329-37
Aalberse RC (*see* van Ree et al). 1999;104:1223-30
Abdelaziz MM (*see* Bayram et al). 1999;104:93-9
Aberle DR (*see* Goldin et al). 1999;104:S258
Abe R (*see* Shimizu et al). 1999;104:659-64
Abuaf N, Bakoliarisoa R, Ghazouani E, Levy DA, Pecquet C, Chabane H, Leynadier F. Validation of a flow cytometric assay detecting in vitro basophil activation for the diagnosis of muscle relaxant allergy. 1999;104:411-8
Ackermann-Liebrich U (*see* Roost et al). 1999;104:941-7
Adam H (*see* Schäfer et al). 1999;104:1280-4
Adams J (*see* Elliott et al). 1999;104:294-300
Addis A (*see* Loebstein et al). 1999;104:953-6
Aden E, Weber B, Bossert J, Teppke M, Frank E, Wahl R, Fiebig H, Cromwell O. Standardization of *Alternaria alternata:* extraction and quantification of Aalt a 1 by using an mAb-based 2-site binding assay. 1999;104:128-35
Agertoft L, Pedersen S. Short-term lower leg growth rate in children with rhinitis treated with intranasal mometasone furoate and budesonide. 1999;104:948-52
Agostoni A (*see* Nussberger et al). 1999;104:1321-2
Ajiki W (*see* Kodama et al). 1999;104:173-6
Akagi T (*see* Nakada et al). 1999;104:222-7
Akasawa A (*see* Nomura et al). 1999;104:411-6
Akizuki O (*see* Kohama et al). 1999;104:1231-8
Albano M (*see* Passalacqua et al). 1999;104:964-8
Alhenc-Gelas F (*see* Roisman et al). 1999;104:402-10
Allen J (*see* Pear et al). 1999;104:526-9 (Editorial)
Almeide AG (*see*) Jacob et al). 1999;104:99 (correction)
Almeide AG (*see*) Pastorino et al). 1999;104:127 (correction)
Alshehri GM (*see* Grouhi et al). 1999;104:190-3
Alvarez-Sala R (*see* Barranco et al). 1999;104:500-1 (Brief comm.)
André C (*see* La Rosa et al). 1999;104:425-32
Andrews RP (*see* Kepley et al). 1999;104:279-84
Anolik R (*see* Meltzer et al). 1999;104:107-14
Ansaloni R (*see* Pastorello et al). 1999;104:1099-105
Ansari AA (*see* Teuber et al). 1999;104:1311-20
Ansari MA (*see* Jacobson et al). 1999;104:653-8
Aragoncillo C (*see* Diaz-Perales et al). 1999;104:681-7
Arif SAM (*see* Sowka et al). 1999;104:1302-10
Arledge TE (*see* Kemp et al). 1999;104:1189-97
Arlian LG, Morgan MS, Goelz JF. Quantitation of dust mites and allergen in small dust samples. 1999;104:707-9 (Brief comm.)
Arlian LG, Neal JS, Vyszenski-Moher DAL. Reducing relative humidity to control the house dust mite *Dermatophagoides farinae.* 1999;104:852-6
Armstrong JL (*see* Yarbrough et al). 1999;104:704-5 (Brief comm.)
Arnved J (*see* Würtzen et al). 1999;104:115-22
Aron Y, Bienvenu T, Hubert D, Dusser D, Dall'Ava J, Polla BS. HLA-DR polymorphism in allergic bronchopulmonary aspergillosis. 1999;104:891-2 (Brief comm.)
Aron Y (*see* Sénéchal et al). 1999;104:395-401
Arora N (*see* Gupta et al). 1999;104:857-62
Arquint O, Helbling A, Crameri R, Ferreira F, Breitenbach M, Pichler WJ. Reduced in vivo allergenicity of Bet v 1d isoform, a natural component of birch pollen. 1999;104:1239-43
Arrieta I (*see* del Pozo et al). 1999;104:637-43
Arruda LK (*see* Santos et al). 1999;104:329-37
Arvilommi H (*see* Kalliomäki et al). 1999;104:1251-7
Asero R. Chronic generalized pruritus caused by nitrate intolerance. 1999;104:1110-1 (Brief comm.)
Asmus MJ, Sherman J, Hendeles L. Bronchoconstrictor additives in bronchodilator solutions. 1999;104:S53-60
Assanasen P, Baroody FM, Naureckas E, Naclerio RM. Warming of feet elevates nasal mucosal surface temperature and reduces the early response to nasal challenge with allergen. 1999;104:285-93
Astwood JD (*see* Sowka et al). 1999;104:1302-10
Atkins P. Chlorofluorocarbon to hydrofluoroalkane formulations: an industry perspective. 1999;104:S268
Atsuta J (*see* Stellato et al). 1999;104:623-9

### B

Babovic-Vuksanovic D (*see* Ten et al). 1999;104:419-24
Bae J-M (*see* Kim et al). 1999;104:1285-92
Bai TR (*see* Zheng et al). 1999;104:136-44
Bakoliarisoa R (*see* Abuaf et al). 1999;104:411-8
Ballas ZK (*see* Kline et al). 1999;104:1258-64
Ball B (*see* Kehrl et al). 1999;104:1198-204
Barjau MC (*see* Subiza et al). 1999;104:711-2 (Brief comm.)
Bar-Sela S, Reshef T, Mekori YA. IgE antithyroid microsomal antibodies in a patient with chronic urticaria. 1999;104:699 (correction)
Barnes KC, Freidhoff LR, Horowitz EM, Mathias RA, Mulkern DM, Bonacum JT, Goldman MH, Polito AJ, Saini SS, Marsh DG, Beaty TH, Togias A. Physician-derived asthma diagnoses made on the basis of questionnaire data are in good agreement with interview-based diagnoses and are not affected by objective tests. 1999;104:791-6


*July, p 1-248; August (part 1), p 249-506; August (part 2), p S1-S84; September (part 1), p 507-714; September (part 2), p S85-S130; October (part 1), p 715-892 and S131-S158; October (part 2), p S159-214; November, p 893-1116; December, p 1117-1376 and S215-70.

Barnes KC, Freidhoff LR, Nickel R, Chiu Y-F, Juo S-H, Hizawa N, Naidu RP, Ehrlich E, Duffy DL, Schou C, Levett PN, Marsh DG, Beaty TH. Dense mapping of chromosome 12q13.12-q23.3 and linkage to asthma and atopy. 1999;104:485-91

Barnes PJ. Effect of β-agonists on inflammatory cells. 1999;104:S10-7

Baroody FM (*see* Assanasen et al). 1999;104:285-93

Barranco P, Moreno-Ancillo A, Robles MLM, Alvarez-Sala R, De Terreros LG, Martin-Esteban M, Vicente J, Lopez-Serrano MC. Hypersensitivity pneumonitis in a worker exposed to tiger nut dust. 1999;104:500-1 (Brief comm.)

Barrios R (*see* Shardonofsky et al). 1999;104:215-21

Barry PW, O'Callaghan C. An in vitro analysis of the output of budesonide from different nebulizers. 1999;104:1168-73

Barry PW, O'Callaghan C. The output of budesonide from spacer devices assessed under simulated breathing conditions. 1999;104:1205-10

Bartolomé B (*see* Sánchez-Guerrero et al). 1999;104:181-5

Baskerville JC (*see* Toogood et al). 1999;104:769-74

Baswick E (*see* Gauvreau et al). 1999;104:66-71

Batanero E (*see* Tejera et al). 1999;104:797-802

Baur X (*see* Rihs et al). 1999;104:1293-301

Bavbek S (*see* Scalabrin et al). 1999;104:1273-9

Bayram H, Devalia JL, Khair OA, Abdelaziz MM, Sapsford RJ, Czarlewski W, Campbell AM, Bousquet J, Davies RJ. Effect of loratadine on nitrogen dioxide-induced changes in electrical resistance and release of inflammatory mediators from cultured human bronchial epithelial cells. 1999;104:93-9

Beasley R, Pearce N, Crane J, Burgess C. β-agonists: what is the evidence that their use increases the risk of asthma morbidity and mortality?. 1999;104:S18-30

Beasley R (*see* Wickens et al). 1999;104:554-8

Beaty TH (*see* Barnes et al). 1999;104:485-91, 1999;104:791-6

Becker A (*see* Chan-Yeung et al). 1999;104:317-21

Becker D (*see* Brand et al). 1999;104:1052-9

Becker EW (*see* Brockow et al). 1999;104:1107-8 (Brief comm.)

Beck LA (*see* Nickel et al). 1999;104:723-42

Beezhold DH (*see* Sowka et al). 1999;104:1302-10

Bellinghausen I (*see* Brand et al). 1999;104:1052-9

Beltrani VS. Atopic dermatitis: an update. 1999;104:S85-6

Beltrani VS. The clinical spectrum of atopic dermatitis. 1999;104:S87-98

Bender BG (*see* Wamboldt et al). 1999;104:53-7

Benlounes N, Candalh C, Matarazzo P, Dupont C, Heyman M. The time-course of milk antigen-induced TNF-α secretion differs according to the clinical symptoms in children with cow's milk allergy. 1999;104:863-9

Berger M. Goals of therapy in antibody deficiency syndromes. 1999;104:911-3 (Editorial)

Berger M (*see* Bonfield et al). 1999;104:72-8

Berger WE (*see* Meltzer et al). 1999;104:107-14

Berkowitz RB (see Meltzer et al). 1999;104:107-14

Bernstein JA (*see* Rosa-Rosa et al). 1999;104:1008-14

Bessot J-C (*see* Sénéchal et al). 1999;104:395-401

Bickel CA (*see* Stellato et al). 1999;104:623-9

Bienvenu T (*see* Aron et al). 1999;104:891-2 (Brief comm.)

Bigliardi P (*see* Bircher et al). 1999;104:1111-3 (Brief comm.)

Bili A, Condemi JJ, Bottone SM, Ryan CK. Seven cases of complete and incomplete forms of Churg-Strauss syndrome not related to leukotriene receptor antagonists. 1999;104:1060-5

Bingham C (*see* Shadick et al). 1999;104:123-7

Bircher AJ, Bigliardi P, Yilmaz B. Anaphylaxis resulting from selective sensitization to *Americana* grapes. 1999;104:1111-3 (Brief comm.)

Björjstén B. The intrauterine and postnatal environments. 1999;104:1119-27

Björnsson E (*see* Plaschke et al). 1999;104:58-65

Blanca M (*see* Romano et al). 1999;104:1113-4 (Brief comm.)

Blanco C (*see* Diaz-Perales et al). 1999;104:681-7

Blaser K (*see* Hemmann et al). 1999;104:601-7

Blaser K (*see* Hoffmann-Sommergruber et al). 1999;104:478-84

Blau H (*see* Volovitz et al). 1999;104:1162-7

Blaylock MG, Sexton DW, Walsh GM. Ligation of CD45 and the isoforms CD45RA and CD45RB accelerates the rate of constitutive apoptosis in human eosinophils. 1999;104:1244-50

Bleecker ER (*see* Wiesch et al). 1999;104:895-901

Blumberg MZ (*see* Yarbrough et al). 1999;104:704-5 (Brief comm.)

Bluth MH (*see* Seroogy et al). 1999;104:1045-51

Bodini A (*see* Piacentini et al). 1999;104:243-4 (Brief comm.)

Bodini A (*see* Placentini et al). 1999;104:1323-4

Boehlecke B (*see* Peden et al). 1999;104:388-94

Bohle B (*see* Jahn-Schmid et al). 1999;104:1015-23

Bollinger ME, Hamilton RG, Wood RA. Protamine allergy as a complication of insulin hypersensitivity: a case report. 1999;104:462-5

Bonacum JT (*see* Barnes et al). 1999;104:791-6

Bonati M (*see* Loebstein et al). 1999;104:953-6

Bond J (*see* van Ree et al). 1999;104:1223-30

Boner AL (*see* Piacentini et al). 1999;104:243-4 (Brief comm.)

Boner AL (*see* Placentini et al). 1999;104:1323-4

Bonfield TL, Konstan MW, Berger M. Altered respiratory epithelial cell cytokine production in cystic fibrosis. 1999;104:72-8

Borbély P (*see* Brander et al). 1999;104:630-6

Borgström L. The pharmacokinetics of inhaled hydrofluoroalkane formulations. 1999;104:S246

Bossert J (*see* Aden et al). 1999;104:128-35

Bottone SM (*see* Bili et al). 1999;104:1060-5

Bousquet J (*see* Bayram et al). 1999;104:93-9

Bousquet J (*see* Demoly et al). 1999;104:504-5 (Brief comm.)

Bousquet J (*see* Hoffmann-Sommergruber et al). 1999;104:478-84

Bousquet J (*see* Howarth et al). 1999;104:927-33
Bousquet J (*see* Leynaert et al). 1999;104:301-4
Bousquet J (*see* Mautino et al). 1999;104:530-3 (Editorial)
Brander KA, Borbély P, Crameri R, Pichler WJ, Helbling A. IgE-binding proliferative responses and skin test reactivity to Cop c 1, the first recombinant allergen from the basidiomycete *Coprinus comatus*. 1999;104:630-6
Brander KA (*see* Fischer et al). 1999;104:836-41
Brand U, Bellinghausen I, Enk AH, Jonuleit H, Becker D, Knop J, Saloga J. Allergen-specific immune deviation from a $T_H2$ to a $T_H1$ response induced by dendritic cells and collagen type I. 1999;104:1052-9
Brazinsky S (*see* Busse et al). 1999;104:1215-22
Brehler R, Luger TA. Atopy: immunodeviation and environment. 1999;104:1128-30 (Editorial)
Brehler R (*see* Sowka et al). 1999;104:1302-10
Breitenbach M (*see* Arquint et al). 1999;104:1239-43
Breiteneder H (*see* Hoffmann-Sommergruber et al). 1999;104:478-84
Breiteneder H (*see* Sowka et al). 1999;104:1302-10
Breiteneder H (*see* Wagner et al). 1999;104:1084-92
Brenner RJ (*see* Williams et al). 1999;104:702-3 (Brief comm.)
Bren (*see* Ten et al). 1999;104:376-87
Brindley A. The chlorofluorocarbon to hydrofluoroalkane transition: the effect on pressurized metered dose inhaler suspension stability. 1999;104:S221
Brockow K, Becker EW, Worret W-I, Ring J. Late skin test reactions to radiocontrast medium. 1999;104:1107-8 (Brief comm.)
Brockow K, Vieluf D, Püschel K, Grosch J, Ring J. Increased postmortem serum mast cell tryptase in a fatal anaphylactoid reaction to nonionic radiocontrast medium. 1999;104:237-8 (Brief comm.)
Bromberg P (*see* Peden et al). 1999;104:388-94
Bronsky EA (*see* Meltzer et al). 1999;104:107-14
Brooks EG (*see* Midoro-Horiuti et al). 1999;104:608-12
Brooks EG (*see* Midoro-Horuiti et al). 1999;104:613-7
Brown AE (*see* Eppinger et al). 1999;104:1265-72
Brown J (*see* Forrest et al). 1999;104:1066-70
Brown N (*see* Schwingshackl et al). 1999;104:983-90
Buck D (*see* Wagner et al). 1999;104:1084-92
Bufe A (*see* Würtzen et al). 1999;104:115-22
Buhrow L (*see* Thomassen et al). 1999;104:1174-82
Bulder I (*see* van Ree et al). 1999;104:1223-30
Burgess C (*see* Beasley et al). 1999;104:S18-30
Burgt JV (*see* Busse et al). 1999;104:1215-22
Burks AW (*see* Kelso et al). 1999;104:202-4
Burney P (*see* Jarvis et al). 1999;104:934-40
Burney P (*see* Roost et al). 1999;104:941-7
Busche M (*see* Reekers et al). 1999;104:466-72
Bush RK, Sanchez H, Geisler D. Molecular cloning of a major *Alternaria alternata* allergen, rAlt a 2. 1999;104:665-71
Businga TR (*see* Kline et al). 1999;104:1258-64
Busse WW, Brazinsky S, Jacobson K, Stricker W, Schmitt K, Burgt JV, Donnell D, Hannon S, Colice GL. Efficacy response of inhaled beclomethasone dipropionate in asthma is proportional to dose and is improved by formulation with a new propellant. 1999;104:1215-22
Busson M (*see* Sénéchal et al). 1999;104:395-401
Butterfield JH (*see* Yocum et al). 1999;104:452-6

## C

Camargo CA Jr (*see* Lilly et al). 1999;104:786-90
Cameron L (*see* Ihaku et al). 1999;104:1147-54
Campbell AM (*see* Bayram et al). 1999;104:93-9
Candalh C (*see* Benlounes et al). 1999;104:863-9
Canonica GW (*see* La Rosa et al). 1999;104:425-32
Canonica GW (*see* Passalacqua et al). 1999;104:964-8
Capony F (*see* Mautino et al). 1999;104:530-3 (Editorial)
Carat F (*see* La Rosa et al). 1999;104:425-32
Cárdaba B (*see* del Pozo et al). 1999;104:637-43
Carmona EM (*see* Ten et al). 1999;104:419-24
Carrillo T (*see* Diaz-Perales et al). 1999;104:681-7
Carroll N (*see* Kaminsky et al). 1999;104:747-54
Carter C (*see* Hakonarson et al). 1999;104:575-84
Casale TB (*see* McFadden et al). 1999;104:46-52
Castro APM (*see* Jacob et al). 1999;104:99 (correction)
Chabane H (*see* Abuaf et al). 1999;104:411-8
Chang BW (*see* Vaswani et al). 1999;104:1108-9 (Brief comm.)
Chang Y-S (*see* Kim et al). 1999;104:1285-92
Chan H (*see* Chan-Yeung et al). 1999;104:317-21
Chan-Yeung M, Ferguson A, Chan H, Dimich-Ward H, Watson W, Manfreda J, Becker A. Umbilical cord blood mononuclear cell proliferative response to house dust mite does not predict the development of allergic rhinitis and asthma. 1999;104:317-21
Chapman I (*see* Elliott et al). 1999;104:294-300
Chapman MD (*see* Santos et al). 1999;104:329-37
Chaudhary VK (see Gupta et al). 1999;104:857-62
Chen A (*see* Rihs et al). 1999;104:1293-301
Chen PH (*see* Eggleston et al). 1999;104:842-6
Chen R (*see* Harris et al). 1999;104:162 (correction)
Chichester K (*see* MacGlashan et al). 1999;104:492-8
Chinn S (*see* Jarvis et al). 1999;104:934-40
Chinn S (*see* Roost et al). 1999;104:941-7
Chiu Y-F (*see* Barnes et al). 1999;104:485-91
Cho S-H (*see* Kim et al). 1999;104:1285-92, 1999;104:311-6, 1999;104:618-22
Chuchalin AG (*see* Villaran et al). 1999;104:547-63
Chung KF (*see* Huang et al). 1999;104:644-52
Chung KF (*see* Wang et al). 1999;104:803-10
Cicardi M (*see* Nussberger et al). 1999;104:1321-2
Clement LT (*see* Jacobson et al). 181653-8
Cockrell GE (*see* Kelso et al). 1999;104:202-4
Codina R (*see* Lockey and Codina). 1999;104:914-6 (Editorial)
Cohen SG. Max Samter, MD. 1999;104:274-5 (Lasting tribute)
Colice GL (*see* Busse et al). 1999;104:1215-22
Colice GL (*see* Goldin et al). 1999;104:S258
Collada C (*see* Diaz-Perales et al). 1999;104:681-7
Compagnon A (*see* Dessanges et al). 1999;104:1155-61
Compton D (*see* Sussman et al). 1999;104:100-6
Condemi JJ (*see* Bili et al). 1999;104:1060-5
Connors MJ (*see* Thomassen et al). 1999;104:1174-82

Conti A (*see* Pastorello et al). 1999;104:1099-105
Cornet P (*see* Harris et al). 1999;104:162: (correction)
Cortegano I (*see* del Pozo et al). 1999;104:637-43
Costa A (*see* Loebstein et al). 1999;104:953-6
Costella S (*see* Placentini et al). 1999;104:1323-4
Costello J. Prospects for improved therapy in chronic obstructive pulmonary disease by the use of levalbuterol. 1999;104:S61-8
Crameri R (*see* Arquint et al). 1999;104:1239-43
Crameri R (*see* Brander et al). 1999;104:630-6
Crameri R (*see* Hemmann et al). 1999;104:601-7
Crameri R (*see* Hoffmann-Sommergruber et al). 1999;104:478-84
Crane J (*see* Beasley et al). 1999;104:S18-30
Crane J (*see* Mason et al). 1999;104:499-500 (Brief comm.)
Crane J (*see* Wickens et al). 1999;104:554-8
Crapo JD, Day BJ. Modulation of nitric oxide responses in asthma by extracellular antioxidants. 1999;104:743-6 (Rostrum)
Cromwell O (*see* Aden et al). 1999;104:128-35
Cuesta-Herranz J, Lázaro M, Martínez A, Figueredo E, Palacios R, de-Las-Heras M, Martínez J. Pollen allergy in peach-allergic patients: sensitization and cross-reactivity to taxonomically unrelated pollens. 1999;104:688-94
Cugno M (*see* Nussberger et al). 1999;104:1321-2
Cummings RH. Pressurized metered dose inhalers: chlorofluorocarbon to hydrofluoroalkane transition: valve performance. 1999;104:Sx12
Cunningham-Rundles C (*see* Eppinger et al). 1999;104:1265-72
Czarlewski W (*see* Bayram et al). 1999;104:93-9
Czarny D (*see* Sutherland et al). 1999;104:889-90 (Brief comm.)

## D

Daffern PJ, Muilenburg D, Hugli TE, Stevenson DD. Association of urinary leukotriene $E_4$ excretion during aspirin challenges with severity of respiratory responses. 1999;104:559-64
Dall-Ava J (*see* Aron et al). 1999;104:891-2 (Brief comm.)
D'Amato G, Noschese P, Russo M, Gilder J, Liccardi G. Pollen asthma in the deep. 1999;104:710 (Brief comm.)
Dandekar AM (*see* Teuber et al). 1999;104:1311-20
Danel CJ (*see* Roisman et al). 1999;104:402-10
Darras J (*see* Lamblin et al). 1999;104:85-92
Darras J (*see* Radenne et al). 1999;104:79-84
Davalia JL (*see* Bayram et al). 1999;104:93-9
Davies RJ (*see* Bayram et al). 1999;104:93-9
Dawson C (*see* Zeiger et al). 1999;104:1115-6 (Letter reply)
Day BJ (*see* Crapo and Day). 1999;104:743-6 (Rostrum)
DeGraff AC Jr (*see* Kemp et al). 1999;104:1189-97
de-Las-Heras M (*see* Cuesta-Herranz et al). 1999;104:688-94
del Pozo V, Arrieta I, Tuñon T, Cortegano I, Gomez B, Cárdaba B, Gallardo S, Rojo M, Renedo G, Palomino P, Tabar AI, Lahoz C. Immunopathogenesis of human gastrointestinal infection by *Anisakis simplex*. 1999;104:637-43
De Lucca SD, Taylor DJM, O'Meara TJ, Jones AS, Tovey ER. Measurement and characterization of cockroach allergens detected during normal domestic activity. 1999;104:672-80
Demoly P, Messaad D, Fabre J, Reynes J, Bousquet J. Nevirapine-induced cutaneous hypersensitivity reactions and successful tolerance induction. 1999;104:504-5 (Brief comm.)
Demoly P (*see* Hoffmann-Sommergruber et al). 1999;104:478-84
de Monchy JGR (*see* van der Heide et al). 1999;104:447-51
Denburg JA (*see* Upham et al). 1999;104:370-5
deShazo RD. John Edmund Salvaggio, MD. 1999;104:276-7 (Lasting tribute)
DeSimone J (*see* Sicherer et al). 1999;104:186-9
Dessanges J-F, Préfaut C, Taytard A, Matran R, Naya I, Compagnon A, Dinh-Xuan AT. The effect of zafirlukast on repetitive exercise-induced bronchoconstriction: the possible role of leukotrienes in exercise-induced refractoriness. 1999;104:1155-61
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van Neerven RJJ (*see* Würtzen et al). 1999;104:115-22
van Noord JA (*see* Villaran et al). 1999;104:547-63
van Ree R, van Leeuwen A, Bulder I, Bond J, Aalberse RC. Purified natural and recombinant Fel d 1 and cat albumin in in vitro diagnostics for cat allergy. 1999;104:1223-30
Van Uden J, Raz E. Immunostimulatory DNA and applications to allergic disease. 1999;104:902-10
van Wetering S, Sterk PJ, Rabe KF, Hiemstra PS. Defensins: key players or bystanders in infection, injury, and repair in the lung?. 1999;104:1131-8 (Rostrum)
Varpula M (see Kainulainen et al). 1999;104:1031-6
Varsano I (*see* Volovitz et al). 1999;104:1162-7
Vaswani SK, Sampson HA, Chang BW, Hamilton RG. Adult-onset sensitization to casein after occupational exposure to aerosolized Tryptone powder. 1999;104:1108-9 (Brief comm.)
Vaughan JW, Woodfolk JA, Platts-Mills TAE. Assessment of vacuum cleaners and vacuum cleaner bags recommended for allergic subjects. 1999;104:1079-83
Venemalm L (*see* Romano et al). 1999;104:1113-4 (Brief comm.)
Venuti A (*see* Romano et al). 1999;104:1113-4 (Brief comm.)
Venzor J III (*see* Shardonofsky et al). 1999;104:215-21
Vianna EO (*see* Manzolli et al). 1999;104:595-600
Vicente J (*see* Barranco et al). 1999;104:500-1 (Brief comm.)
Vicentini L (*see* Placentini et al). 1999;104:1323-4
Vieluf D (*see* Brockow et al). 1999;104:237-8 (Brief comm.)
Vieths S (*see* Karamloo et al). 1999;104:991-9
Villalba M (*see* Tejera et al). 1999;104:797-802
Villaran C, O'Neill SJ, Helbling A, van Noord JA, Lee TH, Chuchalin AG, Langley SJ, Gunawardena KA, Suskovic S, Laurenzi M, Jasan J, Menten J, Leff JA. Montelukast *versus* salmeterol in patients with asthma and exercise-induced bronchoconstriction. 1999;104:547-53

Villarete L (*see* Mujtaba et al). 1999;104:1037-44
Volcheck GW (*see* Yocum et al). 1999;104:452-6
Volovitz B, Tabachnik E, Nussinovitch M, Shtaif B, Blau H, Gil-Ad I, Weizman A, Varsano I. Montelukast, a leukotriene receptor antagonist, reduces the concentration of leukotrienes in the respiratory tract of children with persistent asthma. 1999;104:1162-7
von Hertzen L, Klaukka T, Mattila H, Haahtela T. *Mycobacterium tuberculosis* infection and the subsequent development of asthma and allergic conditions. 1999;104:1211-4
Vrtala S (*see* van Hage-Hamsten et al). 1999;104:969-77
Vyszenski-Moher DAL (*see* Arlian et al). 1999;104:852-6

**W**

Wagner B, Krebitz M, Buck D, Niggemann B, Yeang HY, Han K-H, Scheiner O, Breiteneder H. Cloning, expression, and characterization of recombinant Hev b 3, a *Hevea brasiliensis* protein associated with latex allergy in patients with spina bifida. 1999;104:1084-92
Wagner R (*see* Grant et al). 1999;104:S1-9
Wahl R (*see* Aden et al). 1999;104:128-35
Waldschmidt TJ (*see* Kline et al). 1999;104:1258-64
Wallaert B (*see* Radenne et al). 1999;104:79-84
Walleart B (*see* Lamblin et al). 1999;104:85-92
Walsh GM (*see* Blaylock et al). 1999;104:1244-50
Walters EH (*see* Glare et al). 1999;104:978-82
Wamboldt FS, Bender BG, O'Connor SL, Gavin LA, Wamboldt MZ, Milgrom H, Szefler SJ, Iklé D, Rand C. Reliability of the model MC311 MDI Chronolog. 1999;104:53-7
Wamboldt MZ (*See* Wamboldt et al). 1999;104:53-7
Wang C-H, Hsieh W-Y, Shih L-Y, Lin H-C, Liu C-Y, Chung KF, Kuo H-P. Increased progenitor cell proliferation in peripheral blood of patients with bronchial asthma: the role of nitric oxide. 1999;104:803-10
Wang M (*see* Diaz-Sanchez et al). 1999;104:1183-8
Wang Y (*see* Kemp et al). 1999;104:1189-97
Wara DW (*see* Seroogy et al). 1999;104:1045-51
Ward GW Jr, Woodfolk JA, Hayden ML, Jackson S, Platts-Mills TAE. Treatment of late-onset asthma with fluconazole. 1999;104:541-6
Wardlaw AJ. Molecular basis for selective eosinophil trafficking in asthma: a multistep paradigm. 1999;104:917-26 (Rostrum)
Watkins N (*see* Peacock et al). 1999;104:153-62
Watson RM (*see* Gauvreau et al). 1999;104:66-71
Watson W (*see* Chan-Yeung et al). 1999;104:317-21
Weber B (*see* Aden et al). 1999;104:128-35
Weiler JM. Anaphylaxis in the general population: a frequent and occasionally fatal disorder that is underrecognized. 1999;104:271-3 (Editorial)
Weir TD (*see* Zheng et al). 1999;104:136-44
Weiss KB (*see* Grant et al). 1999;104:S1-9
Weiss KB (*see* Lozano et al). 1999;104:957-63
Weiss S (*see* Zeiger et al). 1999;104:1115-6 (Letter reply)
Weizman A (*see* Volovitz et al). 1999;104:1162-7
Welch MB (*see* Kemp et al). 1999;104:1189-97
Wenzel SE (*see* Hauk et al). 1999;104:37-45
Werfel T (*see* Reekers et al). 1999;104:466-72
Wheatley LM (*see* Scalabrin et al). 1999;104:1273-9
White C (*see* Seroogy et al). 1999;104:1045-51
White DA (*see* Eppinger et al). 1999;104:1265-72
White MV, Sander N. Asthma from the perspective of the patient. 1999;104:S47-52
White PJ (*see* Frew et al). 1999;104:267-70 (Editorial)
Wichmann H-E (*see* Schäfer et al). 1999;104:1280-4
Wickens K, Crane J, Pearce N, Beasley R. The magnitude of the effect of smaller family sizes on the increase in the prevalence of asthma and hay faver in the United Kingdom and New Zealand. 1999;104:554-8
Wickman M (*see* Lindfors et al). 1999;104:755-62
Wiedermann U (*see* Jahn-Schmid et al). 1999;104:1015-23
Wiesch DG, Meyers DA, Bleecker ER. Genetics of asthma. 1999;104:895-901
Williams G. Moisture transport into chlorofluorocarbon-free metered dose inhalers. 1999;104:S227
Williams LW, Reinfried P, Brenner RJ. Cockroach extermination does not rapidly reduce allergen in settled dust. 1999;104:702-3 (Brief comm.)
Williamson R (*see* Forrest et al). 1999;104:1066-70
Wilmes-Link M (*see* Engelhart et al). 1999;104:242-3 (Brief comm.)
Wilson BB (*see* Scalabrin et al). 1999;104:1273-9
Wilson BS (*see* Kepley et al). 1999;104:279-84
Wing EC (*see* Tarlo et al). 1999;1041083 (correction)
Wisnewski AV, Lemus RM, Karol MH, Redlich CA. Isocyanate-conjugated human lung epithelial cell proteins: a link between exposure and asthma? 1999;104:341-7
Wissenbach M (*see* Würtzen et al). 1999;104:115-22
Wittman M (*see* Reekers et al). 1999;104:466-72
Wjst M (*see* Schäfer et al). 1999;104:1280-4
Woessner KM, Simon RA, Stevenson DD. Monosodium glutamate sensitivity in asthma. 1999;104:305-10
Wong HH (*see* Gershman et al). 1999;104:322-8
Woodfolk JA (*see* Vaughan et al). 1999;104:1079-83
Woodfolk JA (*see* Ward et al). 1999;104:541-6
Wood RA (*see* Bollinger et al). 1999;104:462-5
Wood RA (*see* Eggleston et al). 1999;104:842-6
Woodruff PG (*see* Lilly et al). 1999;104:786-90
Wood TG (*see* Midoro-Horuiti et al). 1999;104:613-7
Worret W-I (*see* Brockow et al). 1999;104:1107-8 (Brief comm.)
Wright AL, Sherrill D, Holberg CJ, Halonen M, Martinez FD. Breast-feeding, maternal IgE, and total serum IgE in childhood. 1999;104:589-94
Wright A (*see* Sherrill et al). 1999;104:28-36
Wright E (*see* Shadick et al). 1999;104:123-7
Würtzen PA, Wissenbach M, Ipsen H, Bufe A, Arnved J, van Neerven RJJ. Highly heterogeneous Phl p 5-specific T cells from patients with allergic rhinitis differentially recognize recombinant Phl p 5 isoallergens. 1999;104:115-22
Wüthrich B (*see* Kempf et al). 1999;104:700-1 (Brief comm.)
Wüthrich B (*see* Roost et al). 1999;104:941-7

X

Xu LJ (*see* Renzi et al). 1999;104:145-52

Y

Yamada E (*see* Kohama et al). 1999;104:1231-8
Yamamoto H (*see* Kohama et al). 1999;104:1231-8
Yamamoto T (*see* Nakada et al). 1999;104:222-7
Yamashita N (*see* Ohta and Yamashita). 1999;104:14-21
Yamashita N (*see* Ohta et al). 1999;104:1024-30
Yamaya M (*see* Nakasato et al). 1999;104:585-8
Yanagida M (*see* Sakaguchi et al). 1999;104:695-9
Yang XX (*see* Renzi et al). 1999;104:145-52
Yarbrough JA, Armstrong JL, Blumberg MZ, Phillips AE, McGahee E, Dolen WK. Allergic rhinoconjunctivitis caused by *Harmonia axyridis* (Asian lady beetle, Japanese lady beetle, or lady bug). 1999;104:704-5 (Brief comm.)
Yawalkar N (*see* Fischer et al). 1999;104:836-41
Yeang HY (*see* Wagner et al). 1999;104:1084-92
Yilmaz B (*see* Bircher et al). 1999;104:1111-3 (Brief comm.)
Ylitalo L, Mäkinen-Kiljunen S, Turjanmaa K, Palosuo T, Reunala T. Cow's milk casein, a hidden allergen in natural rubber latex gloves. 1999;104:177-80
Ylitalo L (*see* Hänninen et al). 1999;104:194-201
Yocum MW, Butterfield JH, Klein JS, Volcheck GW, Schroeder DR, Silverstein MD. Epidemiology of anaphylaxis in Olmsted County: a population-based study. 1999;104:452-6
Yoshino T (*see* Nakada et al). 1999;104:222-7
Youssef L (*see* Kepley et al). 1999;104:279-84
Yu C-K, Shieh C-M, Lei H-Y. Repeated intratracheal inoculation of house dust mite *(Dermatophagoides farinea)* induces pulmonary eosinophilic inflammation and IgE antibody production in mice. 1999;104:228-36
Yun Y-Y, Ko S-H, Park J-W, Hong C-S. Anaphylaxis to venom of the *Pachycondyla* species ant. 1999;104:879-82

Z

Zanolla L (*see* Placentini et al). 1999;104:1323-4
Zeiger RS, Dawson C, Weiss S. Relationship between duration of asthma and asthma severity. 1999;104:1115-6 (Letter reply)
Zetterström O (*see* van Hage-Hamsten et al). 1999;104:969-77
Zheng X, Knight DA, Zhou D, Weir TD, Peacock C, Schellenberg RR, Bai TR. Leukemia inhibitory factor is synthesized and released by human eosinophils and modulates activation state and chemotaxis. 1999;104:136-44
Zhou D (*see* Zheng et al). 1999;104:136-44
Zimmermann N (*see* Rosa-Rosa et al). 1999;104:1008-14
Zisa G (*see* Onorato et al). 1999;104:245-7 (Brief comm.)

# Index to volume 104

## Subject index*

A

**Abscess, lung**
Allergic bronchopulmonary aspergillosis with multiple *Streptococcus pneumoniae* lung abscesses: an unusual initial case presentation (Ricaurté et al), 1999;104:238-40 (Brief comm.)
**Administration, inhalation**
Efficacy response of inhaled beclomethasone dipropionate in asthma is proportional to dose and is improved by formulation with a new propellant (Busse et al). 1999;104:1215-22
An in vitro analysis of the output of budesonide from different nebulizers (Barry and O'Callaghan). 1999;104:1168-73
The output of budesonide from spacer devices assessed under simulated breathing conditions (Barry and O'Callaghan). 1999;104:1205-10
**Administration, intranasal**
A dose-ranging study of mometasone furoate aqueous nasal spray in children with seasonal allergic rhinitis (Meltzer et al), 1999;104:107-14
Short-term lower leg growth rate in children with rhinitis treated with intranasal mometasone furoate and budesonide (Agertort and Pedersen), 1999;104:948-52
**Adolescents**
*Mycobacterium tuberculosis* and the subsequent development of asthma (Leung et al). 1999;104:1117-8 (Editors' choice)
**Adrenergic beta receptor agonists**
The asthma-like pharmacology and toxicology of (S)-isomers of β agonists (Handley), 1999;104:S69-76

*July, p 1-248; August (part 1), p 249-506; August (part 2), p S1-S84; September (part 1), p 507-714; September (part 2), p S85-S130; October (part 1), 715-892 and S131-S158; October (part 2), S159-S214; November, p 893-1116; December, p 1117-1376 and S215-70.

β-agonists: what is the evidence that their use increases the risk of asthma morbidity and mortality? (Beasley et al), 1999;104:S18-30
Concepts of establishing clinical bioequivalence of chlorofluorocarbon and hydrofluoroalkane β-agonists (Parameswaran). 1999;104:S243
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7

**Adrenergic beta$_2$ receptor function**
Molecular and genetic basis of $\beta_2$-adrenergic receptor function (Liggett), 1999;104:S42-6

**Aeroallergens; *see* Allergens**

**Air cleaners**
Clinical effects of air cleaners in homes of asthmatic children sensitized to pet allergens (van der Heide et al), 1999;104:447-51

**Airplane**
Airline snack foods: tension in the peanut gallery (James), 1999;104:25-7 (Editorial)
Planes, passengers, and peanuts (Leung et al). 1999;104:2 (Editors' choice)
Self-reported allergic reactions to peanut on commercial airlines (Sicherer et al), 1999;104:186-9

**Airway(s)**
IL-2 enhances allergic airway responses in rats by increased inflammation but not through increased synthesis of cysteinyl leukotrienes (Renzi et al), 1999;104:145-52
Nitrotyrosine formation in the airways and lung parenchyma of patients with asthma (Kaminsky et al), 1999;104:747-54

**Airway, nasal**
Eosinophil influx to the nasal airway after local, low-level LPS challenge in humans (Peden et al), 1999;104:388-94

**Airway hyperresponsiveness; *see also* Bronchial hyperresponsiveness (BHR)**
Contrasting properties of albuterol stereoisomers (Page and Morley), 1999;104:S31-41
Diesel exhaust particulate induces airway hyperresponsiveness in a murine model: essential role of GM-CSF (Ohta et al), 1999;104:1024-30
Prospects for improved therapy in chronic obstructive pulmonary disease by the use of levalbuterol (Costello), 1999;104:S61-8
Therapeutic efficacy of an anti-IL-5 monoclonal antibody delivered into the respiratory tract in a murine model of asthma (Shardonofsky et al), 1999;104:215-21

**Airway obstruction**
Airway remodeling and persistent airway obstruction in asthma (Fish and Peters), 1999;104:509-16

**Airway remodeling**
Airway remodeling and persistent airway obstruction in asthma (Fish and Peters), 1999;104:509-16
Balance in asthma between matrix metalloproteinases and their inhibitors (Mautino et al), 1999;104:530-3 (Editorial)
Human eosinophils release matrix metalloproteinase-9 on stimulation with TNF-α (Schwingshackl et al), 1999;104:983-90

**Albuterol**
The asthma-like pharmacology and toxicology of (S)-isomers of β agonists (Handley), 1999;104:S69-76
Bronchoconstrictor additives in bronchodilator solutions (Asmus et al), 1999;104:S53-60
Contrasting properties of albuterol stereoisomers (Page and Morley), 1999;104:S31-41

**Allergens**
Airline snack foods: tension in the peanut gallery (James), 1999;104:25-7 (Editorial)
Allergen avoidance at high altitude and urinary eosinophil protein X (Piacentini et al), 1999;104:243-4 (Brief comm.)
Allergen avoidance is associated with a fall in exhaled nitric oxide in asthmatic children (Piacentini et al). 1999;104:1323-4 (Brief comm.)
Allergens of *Curvularia lunata* during cultivation in different media (Gupta et al), 1999;104:857-62
Allergen-specific immune deviation from a $T_H2$ to a $T_H1$ response induced by dendritic cells and collagen type I (Brand et al), 1999;104:1052-9
Another hidden food allergen (Leung et al). 1999;104:716 (Editors' choice)
Assessment of vacuum cleaners and vacuum cleaner bags recommended for allergic subjects (Vaughan et al), 1999;104:1079-83
Association between atopic sensitization and asthma and bronchial hyperresponsiveness in Swedish adults: pets and not mites, are the most important allergens (Plaschke et al), 1999;104:58-65
Association between severity of atopic eczema and degree of sensitization to aeroallergens in schoolchildren (Schäfer et al). 1999;104:1280-4
The association of smoking with sensitization to common environmental allergens: results from the European Community Respiratory Health Survey (Jarvis et al), 1999;104:934-40
Atopy: immunodeviation and environment (Brehler). 1999;104:1128-30 (Editorial)
Cat exposure: better early than late? (Leung et al). 1999;104:893 (Editors' choice)
Clinical and immunologic effects of a rush sublingual immunotherapy to *Parietaria* species: a double-blind, placebo-controlled trial (Passalacqua et al), 1999;104:964-8
Clinical effects of air cleaners in homes of asthmatic children sensitized to pet allergens (van der Heide et al), 1999;104:447-51
Clinical role of a lipid transfer protein that acts as a new apple-specific allergen (Pa storello et al), 1999;104:1099-106
Cockroach allergens and asthma in Brazil: identification of tropomyosin as a major allergen with potential cross-reactivity with mite and shrimp allergens (Santos et al), 1999;104:329-37

Cockroach extermination does not rapidly reduce allergen in settled dust (Williams et al), 1999;104:702-3 (Brief comm.)
Common allergens in avian meats (Kelso et al), 1999;104:202-4
The consumer and indoor aeroallergen control (Lockey), 1999;104:914-6 (Editorial)
*Coprinus comatus* (shaggy cap) is a potential source of aeroallergen that may provoke atopic dermatitis (Fischer et al), 1999;104:836-41
Cow's milk casein, a hidden allergen in natural rubber latex gloves (Ylitalo et al), 1999;104:177-80
Cross-allergenicity of peanut and lupine: the risk of lupine allergy in patients allergic to peanuts (Moneret-Vautrin et al), 1999;104:883-8
Differential regulation of cytokine expression after allergen exposure of sensitized rats by cyclosporin A and corticosteroids: relationship to bronchial hyperresponsiveness (Huang et al), 1999;104:644-52
Double-blind placebo-controlled evaluation of sublingual-swallow immunotherapy with standardized *Parietaria judaica* extract in children with allergic rhinoconjunctivitis (La Rosa et al), 1999;104:425-32
Evaluation of air and dust sampling schemes for Fel d 1, Der f 1, and Der p 1 allergens in homes in the Detroit area (Peterson et al), 1999;104:348-55
Exposure of submarine personnel to house dust mite allergens (Engelhart et al), 1999;104:242-3 (Brief comm.)
Highly heterogeneous Phl p 5-specific T cells from patients with allergic rhinitis differentially recognize recombinant Phl p 5 isoallergens (Würtzen et al), 1999;104:115-22
Identification, isolation, and characterization of Ole e 7, a new allergen of olive tree pollen (Tejera et al), 1999;104:797-802
Identification and cloning of a complementary DNA encoding a vicilin-like proprotein, Jug r 2, from English walnut kernel *(Juglans regia)*, a major food allergen (Teuber et al). 1999;104:1311-20
IgE binding of the recombinant allergen soybean profilin (rGly m 3) is mediated by conformational epitopes (Rihs et al). 1999;104:1293-301
IgE-binding proliferative responses and skin test reactivity to Cop c 1, the first recombinant allergen from the basidiomycete *Coprinus comatus* (Brander et al), 1999;104:630-6
IgE reactivity to Api g 1, a major celery allergen, in a Central European population is based on primary sensitization by Bet v 1 (Hoffmann-Sommergruber et al), 1999;104:478-84
Immunostimulatory oligodeoxynucleotide induces $T_{H1}$ immune response and inhibition of IgE antibody production to cedar pollen allergens in mice (Kohama et al). 1999;104:1231-8
Increased allergen production in turnip *(Brassica rapa)* by treatments activating defense mechanisms (Hänninen et al), 1999;104:194-201
Increased specific airway reactivity of persons with mild allergic asthma after 7.6 hours of exposure to 0.16 ppm ozone (Kehrl et al). 1999;104:1198-204
Isolation and characterization of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:608-12
Measurement and characterization of cockroach allergens detected during normal domestic activity (De Lucca et al), 1999;104:672-80
Molecular and immunologic characterization of new isoforms of the *Hevea brasiliensis* latex allergen Hev b 7: evidence of no cross-reactivity between Hev b 7 isoforms and potato patatin and proteins from avocado and banana (Sowka et al). 1999;104:1302-10
Molecular cloning of a major *Alternaria alternata* allergen, rAlt a 2 (Bush et al), 1999;104:665-71
Molecular cloning of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:613-7
Nitric oxide regulation of asthmatic airway inflammation with segmental allergen challenge (Thomassen et al). 1999;104:1174-82
Oligodeoxynucleotides containing CpG motifs modulate the allergic $T_{H2}$ response of BALB/c mice to Bet v 1, the major birch pollen allergen (Jahn-Schmid et al), 1999;104:1015-23
Pets and asthma in a northerly climate (Leung et al). 1999;104:2 (Editors' choice)
Planes, passengers, and peanuts (Leung et al). 1999;104:2 (Editors' choice)
Pollen asthma in the deep (D'Amato et al). 1999;104:710 (Brief comm.)
Purified natural and recombinant Fel d 1 and cat albumin in in vitro diagnostics for cat allergy (van Ree et al). 1999;104:1223-30
Quantitation of dust mites and allergen in small dust samples (Arlian et al), 1999;104:707-9 (Brief comm.)
Reduced in vivo allergenicity of Bet v 1d isoform, a natural component of birch pollen (Arquint et al). 1999;104:1239-43
The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program (Nelson et al), 1999;104:775-85
Removal of cockroach allergen from inner-city homes (Eggleston et al), 1999;104:842-6
Repeated intratracheal inoculation of house dust mite *(Dermatophagoides farinae)* induces pulmonary eosinophilic inflammation and IgE antibody production in mice (Yu et al), 1999;104:228-36
Role of current and childhood exposure to cat and atopic sensitization (Roost et al), 1999;104:941-7

Self-reported allergic reactions to peanut on commercial airlines (Sicherer et al), 1999;104:186-9
Skeeter syndrome (Simons and Peng), 1999;104:705-7 (Brief comm.)
Skin reactivity to inhalant allergens, total serum IgE levels, and bronchial responsiveness to methacholine are increased in parents of nonatopic asthmatic children (Kim et al), 1999;104:311-6
Skin test evaluation of genetically engineered hypoallergenic derivatives of the major birch pollen allergen, Bet v 1: results obtained with a mix of two recombinant Bet v 1 fragments and recombinant Bet v 1 trimer in a Swedish population before the birch pollen season (van Hage-Hamsten et al), 1999;104:969-77
Skin test reactivity to 2 recombinant *Aspergillus fumigatus* allergens in *A fumigatus*-sensitized asthmatic subjects allows diagnostic separation of allergic bronchopulmonary aspergillosis from fungal sensitization (Hemmann et al), 1999;104:601-7
Standardization of *Alternaria alternata:* extraction and quantification of Alt a 1 by using an mAb-based 2-site binding assay (Aden et al), 1999;104:128-35
Total serum IgE and its association with asthma symptoms and allergic sensitization among children (Sherrill et al), 1999;104:28-36
Use of specific IgE in assessing the relevance of fungal and dust mite allergens to atopic dermatitis: a comparison with asthmatic and nonasthmatic control subjects (Scalabrin et al), 1999;104:1273-9
Warming of feet elevates nasal mucosal surface temperature and reduces the early response to nasal challenge with allergen (Assanasen et al), 1999;104:285-93

**Allergic rhinitis; *see* Rhinitis, allergic**

***Alternaria alternata***

Molecular cloning of a major *Alternaria alternata* allergen, rAlt a 2 (Bush et al), 1999;104:665-71
Standardization of *Alternaria alternata:* extraction and quantification of Alt a 1 by using an mAb-based 2-site binding assay (Aden et al), 1999;104:128-35

**Anaphylactic reaction**

Epidemiology of anaphylaxis in Olmsted County: a population-based study (Yocum et al), 1999;104:452-6
Validation of a flow cytometric assay detecting in vitro basophil activation for the diagnosis of muscle relaxant allergy (Abuaf et al), 1999;104:411-8

**Anaphylactoid reaction**

Anaphylaxis in the general population: a frequent and occasional fatal disorder that is underrecognized (Weiler), 1999;104:271-3 (Editorial)
Increased postmortem serum mast cell tryptase in a fatal anaphylactoid reaction to nonionic radiocontrast medium (Brockow et al), 1999;104:237-8 (Brief comm.)

**Anaphylaxis**

Anaphylaxis and epinephrine auto-injector training: who will teach the teachers? (Grouhi et al), 1999;104:190-3
Anaphylaxis in the general population: a frequent and occasional fatal disorder that is underrecognized (Weiler), 1999;104:271-3
Anaphylaxis resulting from selective sensitization to *Americana* grapes (Bircher et al), 1999;104:1111-3 (Brief comm.)
Anaphylaxis to venom of the *Pachycondyla* species of ant (Yun et al), 1999;104:879-82
Epidemiology of anaphylaxis in Olmsted County: a population-based study (Yocum et al), 1999;104:452-6
Macadamia nut anaphylaxis: demonstration of specific IgE reactivity and partial cross-reactivity with hazelnut (Sutherland et al), 1999;104:889-90 (Brief commm.)
The natural history of exercise-induced anaphylaxis: survey results from a 10-year follow-up study (Shadick et al), 1999;104:123-7
Who will teach the teachers? (Leung et al), 1999;104:2 (Editors' choice)

**Anesthetics, local**

Contact sensitivity to multiple local anesthetics (Redfern), 1999;104:890-1 (Brief comm.)

**Angioedema, hereditary**

Local bradykinin generation in hereditary angioedema (Nussberger et al), 1999;104:1321-2 (Brief comm.)

**Angiotensin-converting enzyme (ACE)**

Decreased expression of angiotensin-converting enzyme in the airway epithelium of asthmatic subjects is associated with eosinophil inflammation (Roisman et al), 1999;104:402-10

***Anisakis simplex***

Immunopathogenesis of human gastrointestinal infection by *Anisakis simplex* (del Pozo et al), 1999;104:637-43

**Ant; *see* Insects**

**Antibody(ies)**

Goals of therapy in antibody deficiency syndromes (Berger), 1999;104:911-3 (Editorial)

**Antigens**

Antigen-specific recall urticaria to a peptide-based vaccine (Rinn et al), 1999;104:240-2 (Brief comm.)

**Antihistamines**

Double-blind, placebo-controlled study comparing the efficacy and safety of fexofenadine hydrochloride (120 and 180 mg once daily) and cetrizine in seasonal allergic rhinitis (Howarth et al), 1999;104:927-33
A double-blind, placebo-controlled trial of fexofenadine HCl in the treatment of chronic idiopathic urticaria (Finn et al), 1999;104:1071-8

The efficacy and safety of fexofenadine HCl and pseudoephedrine, alone and in combination, in seasonal allergic rhinitis (Sussman et al), 1999;104:100-6

Pregnancy outcome after gestational exposure to terfenadine: a multicenter, prospective controlled study (Loebstein et al), 1999;104:953-6

**Antioxidants**

Modulation of nitric oxide responses in asthma by extracellular antioxidants (Crapo and Day), 1999;104:743-6 (Rostrum)

**Antisense oligonucleotides**

Oligonucleotide therapy of allergic asthma (Metzger and Nyce), 1999;104:260-6

**Apoptosis**

Apoptosis of eosinophils and lymphocytes in allergic inflammation (Ohta and Yamashita), 1999;104:14-21

Ligation of CD45 and the isoforms CD45RA and CD45RB accelerates the rate of constitutive apoptosis in human eosinophils (Blaylock et al). 1999;104:1244-50

$PGE_2$ and dibutyryl cyclic adenosine monophosphate prolong eosinophil survival in vitro (Peacock et al), 1999;104:153-62

**Apple; *see* Fruits**

**ASA; *see* Aspirin (ASA)**

**Aspergillosis, bronchopulmonary, allergic**

Allergic bronchopulmonary aspergillosis with multiple *Streptococcus pneumoniae* lung abscesses: an unusual initial case presentation (Ricaurté et al), 1999;104:238-40 (Brief comm.)

HLA-DR polymorphism in allergic bronchopulmonary aspergillosis (Aron et al), 1999;104:891-2 (Brief comm.)

Sensitization to *Aspergillus* species in the congenital neutrophil disorders chronic granulomatous disease and hyper-IgE syndrome (Eppinger et al). 1999;104:1265-72

Skin test reactivity to 2 recombinant *Aspergillus fumigatus* allergens in *A fumigatus*-sensitized asthmatic subjects allows diagnostic separation of allergic bronchopulmonary aspergillosis from fungal sensitization (Hemmann et al), 1999;104:601-7

***Aspergillus***

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***Aspergillus fumigatus***

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**Aspirin (ASA)**

Aspirin-induced asthma: advances in pathogenesis and management (Szczeklik and Stevenson), 1999;104:5-13

Association of urinary leukotriene $E_4$ excretion during aspirin challenges with severity of respiratory responses (Daffern et al), 1999;104:559-64

**Asthma**

Administration of budesonide once daily by means of Turbuhaler to subjects with stable asthma (McFadden et al), 1999;104:46-52

Adoptively transferred late allergic response is inhibited by IL-4, but not IL-5, antisense oligonucleotide (Molet et al), 1999;104:205-14, 1999;104:1088 (correction)

Air pollution and asthma (Koenig), 1999;104:717-22

Airway remodeling and persistent airway obstruction in asthma (Fish and Peters), 1999;104:509-16

Allergen avoidance at high altitude and urinary eosinophil protein X (Piacentini et al), 1999;104:243-4 (Brief comm.)

Allergen avoidance is associated with a fall in exhaled nitric oxide in asthmatic children (Piacentini et al). 1999;104:1323-4 (Brief comm.)

Allergic rhinobronchitis: the asthma-allergic rhinitis link (Simons), 1999;104:534-40 (Rostrum)

Altered expression and action of the low-affinity IgE receptor FcεRII (CD23) in asthmatic airway smooth muscle (Hakonarson et al), 1999;104:575-84

Apoptosis of eosinophils and lymphocytes in allergic inflammation (Ohta and Yamashita), 1999;104:14-21

Aspirin-induced asthma: advances in pathogenesis and management (Szczeklik and Stevenson), 1999;104:5-13

Association between atopic sensitization and asthma and bronchial hyperresponsiveness in Swedish adults: pets and not mites, are the most important allergens (Plaschke et al), 1999;104:58-65

Association of urinary leukotriene $E_4$ excretion during aspirin challenges with severity of respiratory responses (Daffern et al), 1999;104:559-64

Asthma from the perspective of the patient (White and Sander), 1999;104:S47-52

The asthma-like pharmacology and toxicology of (S)-isomers of β agonists (Handley), 1999;104:S69-76

Asthmatic airway biopsy specimens are more likely to express the IL-4 alternative splice variant IL-4δ2 (Glare et al), 1999;104:978-82

Attacking the problem of steroid-induced osteoporosis! (Leung et al). 1999;104:716 (Editors' choice)

Balance in asthma between matrix metalloproteinases and their inhibitors (Mautino et al), 1999;104:530-3 (Editorial)

Basophils, back in the spotlight (Leung et al). 1999;104:715 (Editors' choice)

β-agonists: what is the evidence that their use increases the risk of asthma morbidity and mortality? (Beasley et al), 1999;104:S18-30
Chlorofluorocarbon to hydrofluoroalkane formulations: an industry perspective (Atkins). 1999;104:S268
Clinical effects of air cleaners in homes of asthmatic children sensitized to pet allergens (van der Heide et al), 1999;104:447-51
Clinical experience with levalbuterol (Nelson), 1999;104:S77-84
Comparative effects of hydrofluoroalkane and chlorofluorocarbon beclomethasone dipropionate inhalation on small airways: assessment with functional helical thin-section computed tomography (Goldin et al). 1999;104:S258
Contrasting properties of albuterol stereoisomers (Page and Morley), 1999;104:S31-41
CpG oligodeoxynucleotides do not require $T_{H1}$ cytokines to prevent eosinophilic airway inflammation in a murine model of asthma (Kline et al). 1999;104:1258-64
Decreased expression of angiotensin-converting enzyme in the airway epithelium of asthmatic subjects is associated with eosinophil inflammation (Roisman et al), 1999;104:402-10
Defining the target: now can we reduce the economic burden of childhood asthma? (Leung et al). 1999;104:894 (Editors' choice)
Dense mapping of chromosome 12q13.12-q23.3 and linkage to asthma and atopy (Barnes et al), 1999;104:485-91
Deposition of fenoterol from pressurized metered dose inhalers containing hydrofluoroalkanes (Newman et al). 1999;104:S253
Diesel exhaust particulate induces airway hyperresponsiveness in a murine model: essential role of GM-CSF (Ohta et al), 1999;104:1024-30
Doctor, can I take my inhaled steroid only once a day? (Leung et al). 1999;104:1 (Editors' choice)
Do microbes play a role in poorly controlled asthma? (Leung et al). 1999;104:2 (Editors' choice)
The economic burden of asthma in US children: estimates from the National Medical Expenditure Survey (Lozano et al), 1999;104:957-63
Efficacy response of inhaled beclomethasone dipropionate in asthma is proportional to dose and is improved by formulation with a new propellant (Busse et al). 1999;104:1215-22
Elevated plasma eotaxin levels in patients with acute asthma (Lilly et al), 1999;104:786-90
Eotaxin and asthma in the emergency department (Leung et al). 1999;104:715 (Editors' choice)
Fatal and near-fatal asthma questionnaire: prelude to a national registry (Strunk et al), 1999;104:763-8
Fractional analysis of sequential induced sputum samples during sputum induction: evidence that different lung compartments are sampled at different time points (Gershman et al), 1999;104:322-8
Frequency and characterization of antigen-specific IL-4– and IL-13–producing basophils and T cells in peripheral blood of healthy and asthmatic subjects (Devouassoux et al), 1999;104:811-9
Gastroesophageal reflux and asthma: insight into the association (Harding), 1999;104:251-9
Genetic and environmental interaction in allergy and asthma (Holgate). 1999;104:1139-46
Genetics of asthma (Wiesch et al), 1999;104:895-901
Human eosinophils release matrix metalloproteinase-9 on stimulation with TNF-α (Schwingshackl et al), 1999;104:983-90
IL-4 receptor genetic polymorphism correlated with asthma severity (Leung et al). 1999;104:894 (Editors' choice)
Increased progenitor cell proliferation in the peripheral blood of patients with bronchial asthma: the role of nitric oxide (Wang et al), 1999;104:803-10
Increased T-cell receptor Vβ8+ T cells in bronchoalveolar lavage fluid of subjects with poorly controlled asthma: a potential role for microbial superantigens (Hauk et al), 1999;104:37-45
Influence of interaction of environmental risk factors and sensitization in young asthmatic children (Lindfors et al), 1999;104:755-62
Inhaled corticosteroids decrease subepithelial collagen deposition by modulation of the balance between matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 expression in asthma (Hoshino et al), 1999;104:356-63
An in vitro analysis of the output of budesonide from different nebulizers (Barry and O'Callaghan). 1999;104:1168-73
An in vitro comparison of commonly used topical glucocorticoid preparations (Stellato et al), 1999;104:623-9
In vivo resistance to corticosteroids in bronchial asthma is associated with enhanced phosphorylation of JUN N-terminal kinase and failure of prednisolone to inhibit JUN N-terminal kinase phosphorylation (Sousa et al), 1999;104:565-74
Isocyanate-conjugated human lung epithelial cell proteins: a link between exposure and asthma? (Wisnewski et al), 1999;104:341-7
Ligation of CD45 and the isoforms CD45RA and CD45RB accelerates the rate of constitutive apoptosis in human eosinophils (Blaylock et al). 1999;104:1244-50
The magnitude of the effect of smaller family sizes on the increase in the prevalence of asthma and hay fever in the United Kingdom New Zealand (Wickens et al), 1999;104:554-8
Measurement and characterization of cockroach allergens detected during normal domestic activity (De Lucca et al), 1999;104:672-80
Modulation of nitric oxide responses in asthma by extracellular antioxidants (Crapo and Day), 1999;104:743-6 (Rostrum)

Molecular basis for selective eosinophil trafficking in asthma: a multistep paradigm (Wardlaw), 1999;104:917-26 (Rostrum)
Monosodium glutamate sensitivity in asthma (Woessner et al), 1999;104:305-10
Montelukast, a leukotriene receptor antagonist, reduces the concentration of leukotrienes in the respiratory tract of children with persistent asthma (Volovitz et al). 1999;104:1162-7
Montelukast versus salmeterol in patients with asthma and exercise-induced bronchoconstriction (Villaran et al), 1999;104:547-53
*Mycobacterium tuberculosis* and the subsequent development of asthma (Leung et al). 1999;104:1117-8 (Editors' choice)
*Mycobacterium tuberculosis* infection and the subsequent development of asthma and allergic conditions (von Hertzen et al). 1999;104:1211-4
New understanding of disease mechanisms: excitement and caution (Stempel), 1999;104:524-5 (Editorial)
Nitric oxide regulation of asthmatic airway inflammation with segmental allergen challenge (Thomassen et al). 1999;104:1174-82
Nitrotyrosine formation in the airways and lung parenchyma of patients with asthma (Kaminsky et al), 1999;104:747-54
Observations on emerging patterns of asthma in our society (Grant et al), 1999;104:S1-9
A 1-year study of salmeterol powder on pulmonary function and hyperresponsiveness to methacholine (Kemp et al). 1999;104:1189-97
Perennial rhinitis: an independent risk factor for asthma in nonatopic subjects, 1999;104:301-4
Pets and asthma in a northerly climate (Leung et al). 1999;104:2 (Editors' choice)
$PGE_2$ and dibutyryl cyclic adenosine monophosphate prolong eosinophil survival in vitro (Peacock et al), 1999;104:153-62
Physician-derived asthma diagnoses made on the basis of questionnaire data are in good agreement with interview-based diagnoses and are not affected by objective tests (Barnes et al), 1999;104:791-6
Pollen asthma in the deep (D'Amato et al). 1999;104:710 (Brief comm.)
Preparing patients and health professionals for the transition to chlorofluorocarbon-free inhalers: the British perspective (Donohoe). 1999;104:S239
Prevention of severe premenstrual asthma attacks by leukotriene receptor antagonist (Nakasato et al), 1999;104:585-8
Proteasome inhibition: a novel mechanism to combat asthma (Elliott et al), 1999;104:294-300
Relationship between duration of asthma and asthma severity (König). 1999;104:1115 (Letter)
Relationship between duration of asthma and asthma severity (Zeiger et al), 1999;104:1115-6 (Letter reply)
The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program (Nelson et al), 1999;104:775-85
Reliability of the model MC-311 MDI Chronolog (Wamboldt et al), 1999;104:53-7
Removal of cockroach allergen from inner-city homes (Eggleston et al), 1999;104:842-6
The R576 IL-4 receptor α allele correlates with asthma severity (Rosa-Rosa et al), 1999;104:1008-14
Risks of early sensitization to animals (Leung et al). 1999;104:716 (Editors' choice)
Serum osteocalcin and procollagen as markers for the risk of osteoporotic fracture in corticosteroid-treated asthmatic adults (Toogood et al), 1999;104:769-74
Seven cases of complete and incomplete forms of Churg-Strauss syndrome not related to leukotriene receptor antagonists (Bili et al), 1999;104:1060-5
Skin test reactivity to 2 recombinant *Aspergillus fumigatus* allergens in *A fumigatus*-sensitized asthmatic subjects allows diagnostic separation of allergic bronchopulmonary aspergillosis from fungal sensitization (Hemmann et al), 1999;104:601-7
Specific IgG, but not specific IgE, antibodies to toluene diisocyanate-human serum albumin conjugate are associated with toluene diisocyanate bronchoprovocation test results (Park et al), 1999;104:847-51
Spider mite allergy in apple-cultivating farmers: European red mite *(Panonychus ulmi)* and two-spotted spider mite *(Tetranychus urticae)* may be important allergens in the development of work-related asthma and rhinitis symptoms (Kim et al). 1999;104:1285-92
Sputum eosinophil count to assess compliance with corticosteroid therapy in asthma (Parameswaran et al), 1999;104:502-3 (Brief comm.)
Therapeutic efficacy of an anti-IL-5 monoclonal antibody delivered into the respiratory tract in a murine model of asthma (Shardonofsky et al), 1999;104:215-21
Total serum IgE and its association with asthma symptoms and allergic sensitization among children (Sherrill et al), 1999;104:28-36
Treating asthma with antisense oligonucleotides (Leung et al). 1999;104:1 (Editors' choice)
Treatment of late-onset asthma with fluconazole (Ward et al), 1999;104:541-6
Umbilical cord blood mononuclear cell proliferative response to house dust mite does not predict the development of allergic rhinitis and asthma (Chan-Yeung et al), 1999;104:317-21
Use of specific IgE in assessing the relevance of fungal and dust mite allergens to atopic dermatitis: a comparison with asthmatic and nonasthmat-

ic control subjects (Scalabrin et al). 1999;104:1273-9
A variant in the gene for GM-CSF, *I117T,* is associated with atopic asthma in a Swiss population of asthmatic children (Rohrbach et al), 1999;104:247-8 (Brief comm.)

**Asthma, allergic**
Basophils from patients with allergic asthma show a primed phenotype (Lie et al), 1999;104:1000-7
Increased specific airway reactivity of persons with mild allergic asthma after 7.6 hours of exposure to 0.16 ppm ozone (Kehrl et al). 1999;104:1198-204
Oligonucleotide therapy of allergic asthma (Metzger and Nyce), 1999;104:260-6

**Atopy**
Atopy: immunodeviation and environment (Brehler). 1999;104:1128-30 (Editorial)
CD80 (B7-1) and CD86 (B7-2) antigens on house dust mite—specific T cells in atopic disease function through T-T cell interactions (Nakada et al), 1999;104:222-7
The clinical spectrum of atopic dermatitis (Beltrani), 1999;104:S87-98
*Coprinus comatus* (shaggy cap) is a potential source of aeroallergen that may provoke atopic dermatitis (Fischer et al), 1999;104:836-41
Dense mapping of chromosome 12q13.12-q23.3 and linkage to asthma and atopy (Barnes et al), 1999;104:485-91
Epidemiology of anaphylaxis in Olmsted County: a population-based study (Yocum et al), 1999;104:452-6
Genetic and environmental interaction in allergy and asthma (Holgate). 1999;104:1139-46
Genetics and specific immune response in allergy to birch pollen and food: evidence of a strong, positive association between atopy and the HLA class II allele HLA-DR7 (Sénéchal et al), 1999;104:395-401
Identifying genes predisposing to atopic eczema (Forrest et al), 1999;104:1066-70
*Mycobacterium tuberculosis* infection and the subsequent development of asthma and allergic conditions (von Hertzen et al). 1999;104:1211-4
Reduced expression of hemopoietic cytokine receptors on cord blood progenitor cells in neonates at risk for atopy (Upham et al), 1999;104:370-5
Role of current and childhood exposure to cat and atopic sensitization (Roost et al), 1999;104:941-7
Transforming growth factor-β in breast milk: a potential regulator of atopic disease at an early age (Kalliomäki et al). 1999;104:1251-7
Why breast-feeding does not always protect against atopic disease—some immunologic clues (Leung et al). 1999;104:1117-8 (Editors' choice)

**Autoantibodies**
Complement dependence of histamine release in chronic urticaria (Ferrer et al), 1999;104:169-72

**Auto-injector**
Anaphylaxis and epinephrine auto-injector training: who will teach the teachers? (Grouhi et al), 1999;104:190-3
Who will teach the teachers (Leung et al). 1999;104:2 (Editors' choice)

**Auto-injectors**
Who will teach the teachers? (Leung et al). 1999;104:2 (Editors' choice)

**Avocado; *see* Fruits**

**B**

**Banana; *see* Fruits**

**Basidiomycetes**
IgE-binding proliferative responses and skin test reactivity to Cop c 1, the first recombinant allergen from the basidiomycete *Coprinus comatus* (Brander et al), 1999;104:630-6

**Basophils**
Basophils, back in the spotlight (Leung et al). 1999;104:715 (Editors' choice)
Basophils from patients with allergic asthma show a primed phenotype (Lie et al), 1999;104:1000-7
Frequency and characterization of antigen-specific IL-4– and IL-13–producing basophils and T cells in peripheral blood of healthy and asthmatic subjects (Devouassoux et al), 1999;104:811-9
Linkage between IgE receptor-mediated histamine releasability from basophils and gene marker of chromosome 11q13 (Kim et al), 1999;104:618-22
Syk deficiency in nonreleaser basophils (Kepley et al), 1999;104:279-84
Upregulation of FcεRI on human basophils by IgE antibody is mediated by interaction of IgE with FcεRI (MacGlashan et al), 1999;104:492-8
Validation of a flow cytometric assay detecting in vitro basophil activation for the diagnosis of muscle relaxant allergy (Abuaf et al), 1999;104:411-8
An in vitro comparison of commonly used topical glucocorticoid preparations (Stellato et al), 1999;104:623-9

**Bathing**
Update on therapy of atopic dermatitis (Hanifin and Tofte), 1999;104:S123-5

**Beclomethasone dipropionate**
Comparative effects of hydrofluoroalkane and chlorofluorocarbon beclomethasone dipropionate inhalation on small airways: assessment with functional helical thin-section computed tomography (Goldin et al). 1999;104:S258
Effect of formulation parameters on hydrofluoroalkane-beclomethasone dipropionate drug deposition in humans (Leach). 1999;104:S250
Efficacy response of inhaled beclomethasone dipropionate in asthma is proportional to dose and is improved by formulation with a new propellant (Busse et al). 1999;104:1215-22

The pharmacokinetics of inhaled hydrofluoroalkane formulations (Borgström). 1999;104:S246

**β-agonists; *see* Adrenergic beta receptor agonists**

**BHR; *see* Bronchial hyperresponsiveness (BHR)**

**Birch; *see* Trees**

**Bites and stings**

Anaphylaxis to venom of the *Pachycondyla* species of ant (Yun et al), 1999;104:879-82

Skeeter syndrome (Simons and Peng), 1999;104:705-7 (Brief comm.)

**Blood vessels**

The clinical spectrum of atopic dermatitis (Beltrani), 1999;104:S87-98

**Bone densitometry**

Serum osteocalcin and procollagen as markers for the risk of osteoporotic fracture in corticosteroid-treated asthmatic adults (Toogood et al), 1999;104:769-74

**Bradykinin**

Local bradykinin generation in hereditary angioedema (Nussberger et al). 1999;104:1321-2 (Brief comm.)

**Breast-feeding**

Beyond breast-feeding (Peat et al), 1999;104:526-9 (Editorial)

Breast-feeding, maternal IgE, and total serum IgE in childhood (Wright et al), 1999;104:589-94

Transforming growth factor-β in breast milk: a potential regulator of atopic disease at an early age (Kalliomäki et al). 1999;104:1251-7

Why breast-feeding does not always protect against atopic disease — some immunologic clues (Leung et al). 1999;104:1117-8 (Editors' choice)

**Brief communications**

Brief communications, 1999;104:1321-2—31, 1999;104:237-48, 1999;104:499-505, 1999;104:700-712, 1999;104:889-92, 1999;104:1107-14

**Bronchial hyperresponsiveness (BHR); *see also* Airway hyperresponsiveness**

Air pollution and asthma (Koenig), 1999;104:717-22

Association between atopic sensitization and asthma and bronchial hyperresponsiveness in Swedish adults: pets and not mites, are the most important allergens (Plaschke et al), 1999;104:58-65

β-agonists: what is the evidence that their use increases the risk of asthma morbidity and mortality? (Beasley et al), 1999;104:S18-30

Differential regulation of cytokine expression after allergen exposure of sensitized rats by cyclosporin A and corticosteroids: relationship to bronchial hyperresponsiveness (Huang et al), 1999;104:644-52

Eosinophilic airway inflammation in nasal polyposis (Lamblin et al), 1999;104:85-92

Increased specific airway reactivity of persons with mild allergic asthma after 7.6 hours of exposure to 0.16 ppm ozone (Kehrl et al). 1999;104:1198-204

A 1-year study of salmeterol powder on pulmonary function and hyperresponsiveness to methacholine (Kemp et al). 1999;104:1189-97

Perennial rhinitis: an independent risk factor for asthma in nonatopic subjects, 1999;104:301-4

The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program (Nelson et al), 1999;104:775-85

Skin reactivity to inhalant allergens, total serum IgE levels, and bronchial responsiveness to methacholine are increased in parents of nonatopic asthmatic children (Kim et al), 1999;104:311-6

A variant in the gene for GM-CSF, *I117T*, is associated with atopic asthma in a Swiss population of asthmatic children (Rohrbach et al), 1999;104:247-8 (Brief comm.)

**Bronchial provocation tests**

Specific IgG, but not specific IgE, antibodies to toluene diisocyanate-human serum albumin conjugate are associated with toluene diisocyanate bronchoprovocation test results (Park et al), 1999;104:847-51

**Bronchitis**

Allergic rhinobronchitis: the asthma-allergic rhinitis link (Simons), 1999;104:534-40 (Rostrum)

**Bronchoconstriction**

The effect of zafirlukast on repetitive exercise-induced bronchoconstriction: the possible role of leukotrienes in exercise-induced refractoriness (Dessanges et al). 1999;104:1155-61

Montelukast versus salmeterol in patients with asthma and exercise-induced bronchoconstriction (Villaran et al), 1999;104:547-53

**Bronchoconstrictors**

Bronchoconstrictor additives in bronchodilator solutions (Asmus et al), 1999;104:S53-60

**Bronchodilators**

Asthma from the perspective of the patient (White and Sander), 1999;104:S47-52

The asthma-like pharmacology and toxicology of (S)-isomers of β agonists (Handley), 1999;104:S69-76

Bronchoconstrictor additives in bronchodilator solutions (Asmus et al), 1999;104:S53-60

Clinical experience with levalbuterol (Nelson), 1999;104:S77-84

Deposition of fenoterol from pressurized metered dose inhalers containing hydrofluoroalkanes (Newman et al). 1999;104:S253

Prospects for improved therapy in chronic obstructive pulmonary disease by the use of levalbuterol (Costello), 1999;104:S61-8

**Bronchopulmonary aspergillosis, allergic**

Allergic bronchopulmonary aspergillosis with multiple *Streptococcus pneumoniae* lung abscesses: an unusual initial case presentation (Ricaurté et al), 1999;104:238-40 (Brief comm.)

HLA-DR polymorphism in allergic bronchopul-

monary aspergillosis (Aron et al), 1999;104:891-2 (Brief comm.)
Sensitization to *Aspergillus* species in the congenital neutrophil disorders chronic granulomatous disease and hyper-IgE syndrome (Eppinger et al). 1999;104:1265-72
Skin test reactivity to 2 recombinant *Aspergillus fumigatus* allergens in *A fumigatus*-sensitized asthmatic subjects allows diagnostic separation of allergic bronchopulmonary aspergillosis from fungal sensitization (Hemmann et al), 1999;104:601-7

**Bronchus(i)**
Effect of loratadine on nitrogen dioxide-induced changes in electrical resistance and release of inflammatory mediators from cultured human bronchial epithelial cells (Bayram et al), 1999;104:93-9

**Budesonide**
Administration of budesonide once daily by means of Turbuhaler to subjects with stable asthma (McFadden et al), 1999;104:46-52
Doctor, can I take my inhaled steroid only once a day? (Leung et al). 1999;104:1 (Editors' choice)
An in vitro analysis of the output of budesonide from different nebulizers (Barry and O'Callaghan). 1999;104:1168-73
The output of budesonide from spacer devices assessed under simulated breathing conditions (Barry and O'Callaghan). 1999;104:1205-10
Short-term lower leg growth rate in children with rhinitis treated with intranasal mometasone furoate and budesonide (Agertort and Pedersen), 1999;104:948-52

C

**Calcineurin antagonists**
Regulation of antigen-induced human T-lymphocyte responses by calcineurin antagonists (Pacocha et al), 1999;104:828-35

**Casein**
Adult-onset sensitization to casein after occupational exposure to aerosolized Tryptone powder (Vaswani et al), 1999;104:1108-9 (Brief comm.)
Cow's milk casein, a hidden allergen in natural rubber latex gloves (Ylitalo et al), 1999;104:177-80

**Cats**
Association between atopic sensitization and asthma and bronchial hyperresponsiveness in Swedish adults: pets and not mites, are the most important allergens (Plaschke et al), 1999;104:58-65
Cat exposure: better early than late? (Leung et al). 1999;104:893 (Editors' choice)
Clinical effects of air cleaners in homes of asthmatic children sensitized to pet allergens (van der Heide et al), 1999;104:447-51
Influence of interaction of environmental risk factors and sensitization in young asthmatic children (Lindfors et al), 1999;104:755-62
Pets and asthma in a northerly climate (Leung et al). 1999;104:2 (Editors' choice)
Purified natural and recombinant Fel d 1 and cat albumin in in vitro diagnostics for cat allergy (van Ree et al). 1999;104:1223-30
Risks of early sensitization to animals (Leung et al). 1999;104:716 (Editors' choice)
Role of current and childhood exposure to cat and atopic sensitization (Roost et al), 1999;104:941-7

**CD45**
Ligation of CD45 and the isoforms CD45RA and CD45RB accelerates the rate of constitutive apoptosis in human eosinophils (Blaylock et al). 1999;104:1244-50

**Cedar; *see* Trees**

**Ceftriaxone**
A case of IgE-mediated hypersensitivity to ceftriaxone (Romano et al), 1999;104:1113-4 (Brief comm.)

**Celery allergy**
IgE reactivity to Api g 1, a major celery allergen, in a Central European population is based on primary sensitization by Bet v 1 (Hoffmann-Sommergruber et al), 1999;104:478-84

**Cephalosporins**
A case of IgE-mediated hypersensitivity to ceftriaxone (Romano et al), 1999;104:1113-4 (Brief comm.)

**Cetirizine**
Double-blind, placebo-controlled study comparing the efficacy and safety of fexofenadine hydrochloride (120 and 180 mg once daily) and citrizine in seasonal allergic rhinitis (Howarth et al), 1999;104:927-33
Prospective, long-term safety evaluation of the H/d1/D-receptor antagonist cetirizine in very young children with atopic dermatitis (Simons), 1999;104:433-40

**CFCs; *see* Chlorofluorocarbons (CFCs)**

**Challenge, allergen inhalation**
Repeatability of allergen-induced airway inflammation (Gauvreau et al), 1999;104:66-71

**Chemical itch mediators**
Itching and the atopic skin (Koblenzer), 1999;104:S109-13

**Chemokines**
Chemokines and allergic disease (Nickel et al), 1999;104:723-42
Elevated plasma eotaxin levels in patients with acute asthma (Lilly et al), 1999;104:786-90

**Chemotaxis**
Leukemia inhibitory factor is synthesized and released by human eosinophils and modulates activation state and chemotaxis (Zheng et al), 1999;104:136-44

**Child(ren); *see also* Infant(s)**
Allergen avoidance is associated with a fall in exhaled nitric oxide in asthmatic children (Piacentini et al). 1999;104:1323-4 (Brief comm.)

Association between severity of atopic eczema and degree of sensitization to aeroallergens in schoolchildren (Schäfer et al). 1999;104:1280-4
Breast-feeding, maternal IgE, and total serum IgE in childhood (Wright et al), 1999;104:589-94
Clinical effects of air cleaners in homes of asthmatic children sensitized to pet allergens (van der Heide et al), 1999;104:447-51
Cytokine profile of a long-term pediatric HIV survivor with hyper-IgE syndrome and a normal CD4+ T-cell count (Seroogy et al), 1999;104:1045-51
Defining the target: now can we reduce the economic burden of childhood asthma? (Leung et al). 1999;104:894 (Editors' choice)
A dose-ranging study of mometasone furoate aqueous nasal spray in children with seasonal allergic rhinitis (Meltzer et al), 1999;104:107-14
Double-blind placebo-controlled evaluation of sublingual-swallow immunotherapy with standardized *Parietaria judaica* extract in children with allergic rhinoconjunctivitis (La Rosa et al), 1999;104:425-32
The economic burden of asthma in US children: estimates from the National Medical Expenditure Survey (Lozano et al), 1999;104:957-63
Eosinophil involvement and serum IgE level in HIV-1-infected children (Onorato et al), 1999;104:245-7 (Brief comm.)
Evaluation of the staphylococcal exotoxins and their specific IgE in childhood atopic dermatitis (Nomura et al), 1999;104:441-6
Influence of interaction of environmental risk factors and sensitization in young asthmatic children (Lindfors et al), 1999;104:755-62
Montelukast, a leukotriene receptor antagonist, reduces the concentration of leukotrienes in the respiratory tract of children with persistent asthma (Volovitz et al). 1999;104:1162-7
*Mycobacterium tuberculosis* and the subsequent development of asthma (Leung et al). 1999;104:1117-8 (Editors' choice)
Prospective, long-term safety evaluation of the H/d1/D-receptor antagonist cetirizine in very young children with atopic dermatitis (Simons), 1999;104:433-40
The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program (Nelson et al), 1999;104:775-85
Risks of early sensitization to animals (Leung et al). 1999;104:716 (Editors' choice)
Role of current and childhood exposure to cat and atopic sensitization (Roost et al), 1999;104:941-7
Short-term lower leg growth rate in children with rhinitis treated with intranasal mometasone furoate and budesonide (Agertort and Pedersen), 1999;104:948-52
The time-course of milk antigen-induced TNF-α secretion differs according to the clinical symptoms in children with cow's milk allergy (Benlounes et al), 1999;104:863-9
Total serum IgE and its association with asthma symptoms and allergic sensitization among children (Sherrill et al), 1999;104:28-36
A variant in the gene for GM-CSF, *I117T*, is associated with atopic asthma in a Swiss population of asthmatic children (Rohrbach et al), 1999;104:247-8 (Brief comm.)

**Childhood Asthma Management Program**
The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program (Nelson et al), 1999;104:775-85

**Chitinases**
Cross-reactions in the latex-fruit syndrome: a relevant role of chitinases but not of complex asparagine-linked glycans (Diaz-Perales et al), 1999;104:681-7

**Chlorofluorocarbons (CFCs)**
Chlorofluorocarbon to hydrofluoroalkane formulations: an industry perspective (Atkins). 1999;104:S268
The chlorofluorocarbon to hydrofluoroalkane transition: the effect on pressurized metered dose inhaler suspension stability (Brindley). 1999;104:S221
Comparative effects of hydrofluoroalkane and chlorofluorocarbon beclomethasone dipropionate inhalation on small airways: assessment with functional helical thin-section computed tomography (Goldin et al). 1999;104:S258
Concepts of establishing clinical bioequivalence of chlorofluorocarbon and hydrofluoroalkane β-agonists (Parameswaran). 1999;104:S243
Foreword (Dolovich). 1999;104:S215
Preparing patients and health professionals for the transition to chlorofluorocarbon-free inhalers: the British perspective (Donohoe). 1999;104:S239
Pressurized metered dose inhalers: chlorofluorocarbon to hydrofluoroalkane transition: valve performance (Cummings). 1999;104:S230
The role of international environmental agreements in metered-dose inhaler technology changes (Forte and Dibble). 1999;104:S217
A United States regulator's perspective on the ongoing chlorofluorocarbon transition (Meyer). 1999;104:S236

**Chromosome(s)**
Dense mapping of chromosome 12q13.12-q23.3 and linkage to asthma and atopy (Barnes et al), 1999;104:485-91
Linkage between IgE receptor-mediated histamine releasability from basophils and gene marker of chromosome 11q13 (Kim et al), 1999;104:618-22

**Chronic granulomatous disease**
Sensitization to *Aspergillus* species in the congenital

neutrophil disorders chronic granulomatous disease and hyper-IgE syndrome (Eppinger et al). 1999;104:1265-72

**Chronic obstructive pulmonary disease (COPD)**
Prospects for improved therapy in chronic obstructive pulmonary disease by the use of levalbuterol (Costello), 1999;104:S61-8

**Churg-Strauss syndrome**
Churg-Strauss syndrome reported unrelated to leukotriene receptor antagonists (Leung et al). 1999;104:893 (Editors' choice)
Seven cases of complete and incomplete forms of Churg-Strauss syndrome not related to leukotriene receptor antagonists (Bili et al), 1999;104:1060-5

**C1-inhibitor deficiency**
Local bradykinin generation in hereditary angioedema (Nussberger et al). 1999;104:1321-2 (Brief comm.)

**Cloning**
Cloning, expression, and characterization of recombinant Hev b 3, a *Hevea brasiliensis* protein associated with latex allergy in patients with spina bifida (Wagner et al), 1999;104:1084-92
Identification and cloning of a complementary DNA encoding a vicilin-like proprotein, Jug r 2, from English walnut kernel *(Juglans regia)*, a major food allergen (Teuber et al). 1999;104:1311-20
Molecular cloning and characterization of a birch polllen minor allergen, Bet v 5, belonging to a family of isoflavone reductase-related proteins (Karamloo et al), 1999;104:991-9
Molecular cloning of a major *Alternaria alternata* allergen, rAlt a 2 (Bush et al), 1999;104:665-71
Molecular cloning of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 613-7

**Cockroaches**
Cockroach allergens and asthma in Brazil: identification of tropomyosin as a major allergen with potential cross-reactivity with mite and shrimp allergens (Santos et al), 1999;104:329-37
Cockroach extermination does not rapidly reduce allergen in settled dust (Williams et al), 1999;104:702-3 (Brief comm.)
Measurement and characterization of cockroach allergens detected during normal domestic activity (De Lucca et al), 1999;104:672-80
Removal of cockroach allergen from inner-city homes (Eggleston et al), 1999;104:842-6

**Collaborative Study on the Genetics of Asthma**
Physician-derived asthma diagnoses made on the basis of questionnaire data are in good agreement with interview-based diagnoses and are not affected by objective tests (Barnes et al), 1999;104:791-6

**Collagen**
Allergen-specific immune deviation from a $T_H2$ to a $T_H1$ response induced by dendritic cells and collagen type I (Brand et al), 1999;104:1052-9

**Colostrum**
Transforming growth factor-β in breast milk: a potential regulator of atopic disease at an early age (Kalliomäki et al). 1999;104:1251-7
Transforming growth factor-β1 in mothers' colostrum and immune responses to cows' milk proteins in infants with cows' milk allergy (Saarinen et al), 1999;104:1093-8

**Complement**
Complement dependence of histamine release in chronic urticaria (Ferrer et al), 1999;104:169-72

**Computed tomography**
Comparative effects of hydrofluoroalkane and chlorofluorocarbon beclomethasone dipropionate inhalation on small airways: assessment with functional helical thin-section computed tomography (Goldin et al). 1999;104:S258
Pulmonary abnormalities in patients with primary hypogammaglobulinemia (Kainulainen et al), 1999;104:1031-6

**Conjunctivitis**
Allergic rhinoconjunctivitis caused by *Harmonia axyridis* (Asian lady beetle, Japanese lady beetle, or lady bug) (Yarbrough et al), 1999;104:704-5 (Brief comm.)
Double-blind placebo-controlled evaluation of sublingual-swallow immunotherapy with standardized *Parietaria judaica* extract in children with allergic rhinoconjunctivitis (La Rosa et al), 1999;104:425-32
Validation of the standardized version of the Rhinoconjunctivitis Quality of Life Questionnaire (Juniper et al), 1999;104:364-9

***Coprinus comatus***
*Coprinus comatus* (shaggy cap) is a potential source of aeroallergen that may provoke atopic dermatitis (Fischer et al), 1999;104:836-41
IgE-binding proliferative responses and skin test reactivity to Cop c 1, the first recombinant allergen from the basidiomycete *Coprinus comatus* (Brander et al), 1999;104:630-6

**Cord blood**
Reduced expression of hemopoietic cytokine receptors on cord blood progenitor cells in neonates at risk for atopy (Upham et al), 1999;104:370-5
Umbilical cord blood mononuclear cell proliferative response to house dust mite does not predict the development of allergic rhinitis and asthma (Chan-Yeung et al), 1999;104:317-21

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Relationship between duration of asthma and asthma severity (König). 1999;104:1115
Treatment of eosinophilic gastroenteritis with montelukast (Neustrom and Friesen). 1999;104:506

**Corticosteroids**

Apoptosis of eosinophils and lymphocytes in allergic inflammation (Ohta and Yamashita), 1999;104:14-21
Attacking the problem of steroid-induced osteoporosis! (Leung et al). 1999;104:716 (Editors' choice)
Churg-Strauss syndrome reported unrelated to leukotriene receptor antagonists (Leung et al). 1999;104:893 (Editors' choice)
Differential regulation of cytokine expression after allergen exposure of sensitized rats by cyclosporin A and corticosteroids: relationship to bronchial hyperresponsiveness (Huang et al), 1999;104:644-52
Dose-response to inhaled corticosteroids demonstrated (Leung et al). 1999;104:1117-8 (Editors' choice)
Effects of oral and inhaled corticosteroids on the hypothalamic-pituitary-adrenal axis (Li). 1999;104:714 (Letter reply)
Effects of oral and inhaled corticosteroids on the hypothalamic-pituitary-adrenal axis (Lipworth and Jackson). 1999;104:713 (Letter)
Efficacy response of inhaled beclomethasone dipropionate in asthma is proportional to dose and is improved by formulation with a new propellant (Busse et al). 1999;104:1215-22
Inhaled corticosteroids decrease subepithelial collagen deposition by modulation of the balance between matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 expression in asthma (Hoshino et al), 1999;104:356-63
In vivo resistance to corticosteroids in bronchial asthma is associated with enhanced phosphorylation of JUN N-terminal kinase and failure of prednisolone to inhibit JUN N-terminal kinase phosphorylation (Sousa et al), 1999;104:565-74
The output of budesonide from spacer devices assessed under simulated breathing conditions (Barry and O'Callaghan). 1999;104:1205-10
Serum osteocalcin and procollagen as markers for the risk of osteoporotic fracture in corticosteroid-treated asthmatic adults (Toogood et al), 1999;104:769-74
Seven cases of complete and incomplete forms of Churg-Strauss syndrome not related to leukotriene receptor antagonists (Bili et al), 1999;104:1060-5
Sputum eosinophil count to assess compliance with corticosteroid therapy in asthma (Parameswaran et al), 1999;104:502-3 (Brief comm.)
Update on therapy of atopic dermatitis (Hanifin and Tofte), 1999;104:S123-5
An in vitro analysis of the output of budesonide from different nebulizers (Barry and O'Callaghan). 1999;104:1168-73

**Costs and cost analysis**

Defining the target: now can we reduce the economic burden of childhood asthma? (Leung et al). 1999;104:894 (Editors' choice)
The economic burden of asthma in US children: estimates from the National Medical Expenditure Survey (Lozano et al), 1999;104:957-63

**Cow's milk allergy; *see* Milk hypersensitivity**

**Cross reactions**

Birch pollen-related foods trigger atopic dermatitis in patients with specific cutaneous T-cell responses to birch pollen antigens (Reekers et al), 1999;104:466-72
Cloning, expression, and characterization of recombinant Hev b 3, a *Hevea brasiliensis* protein associated with latex allergy in patients with spina bifida (Wagner et al), 1999;104:1084-92
Common allergens in avian meats (Kelso et al), 1999;104:202-4
Contact sensitivity to multiple local anesthetics (Redfern), 1999;104:890-1 (Brief comm.)
Cross-allergenicity of peanut and lupine: the risk of lupine allergy in patients allergic to peanuts (Moneret-Vautrin et al), 1999;104:883-8

Cross-reactions in the latex-fruit syndrome: a relevant role of chitinases but not of complex asparagine-linked glycans (Diaz-Perales et al), 1999;104:681-7

IgE reactivity to Api g 1, a major celery allergen, in a Central European population is based on primary sensitization by Bet v 1 (Hoffmann-Sommergruber et al), 1999;104:478-84

IgE reactivity to α1 and α2 chains of bovine type I collagen in children with bovine gelatin allergy (Sakaguchi et al), 1999;104:695-9

Increased allergen production in turnip *(Brassica rapa)* by treatments activating defense mechanisms (Hänninen et al), 1999;104:194-201

Isolation and characterization of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:608-12

Macadamia nut anaphylaxis: demonstration of specific IgE reactivity and partial cross-reactivity with hazelnut (Sutherland et al), 1999;104:889-90 (Brief comm.)

Molecular and immunologic characterization of new isoforms of the *Hevea brasiliensis* latex allergen Hev b 7: evidence of no cross-reactivity between Hev b 7 isoforms and potato patatin and proteins from avocado and banana (Sowka et al), 1999;104:1302-10

Molecular cloning and characterization of a birch polllen minor allergen, Bet v 5, belonging to a family of isoflavone reductase-related proteins (Karamloo et al), 1999;104:991-9

Molecular cloning of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:613-7

Pollen allergy in peach-allergic patients: sensitization and cross-reactivity to taxonomically unrelated pollens (Cuesta-Herranz et al), 1999;104:688-94

***Curvularia lunata***

Allergens of *Curvularia lunata* during cultivation in different media (Gupta et al), 1999;104:857-62

**Cyclooxygenase enzymes**

Aspirin-induced asthma: advances in pathogenesis and management (Szczeklik and Stevenson), 1999;104:5-13

**Cyclosporin A**

Differential regulation of cytokine expression after allergen exposure of sensitized rats by cyclosporin A and corticosteroids: relationship to bronchial hyperresponsiveness (Huang et al), 1999;104:644-52

Regulation of antigen-induced human T-lymphocyte responses by calcineurin antagonists (Pacocha et al), 1999;104:828-35

**Cystic fibrosis**

Altered respiratory epithelial cell cytokine production in cystic fibrosis (Bonfield et al), 1999;104:72-8

HLA-DR polymorphism in allergic bronchopulmonary aspergillosis (Aron et al), 1999;104:891-2 (Brief comm.)

**Cytokines**

Altered respiratory epithelial cell cytokine production in cystic fibrosis (Bonfield et al), 1999;104:72-8

Basophils from patients with allergic asthma show a primed phenotype (Lie et al), 1999;104:1000-7

CpG oligodeoxynucleotides do not require $T_{H1}$ cytokines to prevent eosinophilic airway inflammation in a murine model of asthma (Kline et al), 1999;104:1258-64

Cytokine profile of a long-term pediatric HIV survivor with hyper-IgE syndrome and a normal $CD4^+$ T-cell count (Seroogy et al), 1999;104:1045-51

Differential regulation of cytokine expression after allergen exposure of sensitized rats by cyclosporin A and corticosteroids: relationship to bronchial hyperresponsiveness (Huang et al), 1999;104:644-52

Increased production of macrophage migration inhibitory factor by PBMCs of atopic dermatitis (Shimizu et al), 1999;104:659-64

Increased progenitor cell proliferation in the peripheral blood of patients with bronchial asthma: the role of nitric oxide (Wang et al), 1999;104:803-10

The influence of initial exposure timing to β-lactoglobulin on oral tolerance induction (Kato et al), 1999;104:870-9

Leukemia inhibitory factor is synthesized and released by human eosinophils and modulates activation state and chemotaxis (Zheng et al), 1999;104:136-44

Pathogenesis of atopic dermatitis (Leung), 1999;104:S99-108

Reduced expression of hemopoietic cytokine receptors on cord blood progenitor cells in neonates at risk for atopy (Upham et al), 1999;104:370-5

Treating asthma with antisense oligonucleotides (Leung et al). 1999;104:1 (Editors' choice)

**D**

***Dactylis glomerata***

Inhibition of the seasonal IgE increase to *Dactylis glomerata* by daily sodium chloride nasal-sinus irrigation during the grass pollen season (Subiza et al), 1999;104:711-2 (Brief comm.)

**Defensins**

Defensins: key players or bystanders in infection, injury, and repair in the lung? (van Wetering et al). 1999;104:1131-8 (Rostrum)

**Dendritic cells**

Allergen-specific immune deviation from a $T_H2$ to a $T_H1$ response induced by dendritic cells and collagen type I (Brand et al), 1999;104:1052-9

**Dermatitis, atopic**

Association between severity of atopic eczema and

degree of sensitization to aeroallergens in schoolchildren (Schäfer et al). 1999;104:1280-4
Atopic dermatitis: an update (Beltrani), 1999;104:S85-6
Birch pollen-related foods trigger atopic dermatitis in patients with specific cutaneous T-cell responses to birch pollen antigens (Reekers et al), 1999;104:466-72
The clinical spectrum of atopic dermatitis (Beltrani), 1999;104:S87-98
*Coprinus comatus* (shaggy cap) is a potential source of aeroallergen that may provoke atopic dermatitis (Fischer et al), 1999;104:836-41
Effect of stress on atopic dermatitis: investigation in patients after the Great Hanshin Earthquake (Kodama et al), 1999;104:173-6
Elevated serum L-selectin levels and abnormal regulation of L-selectin expression on leukocytes in atopic dermatitis: soluble L-selectin levels indicate disease severity (Shimada et al), 1999;104:163-8
Evaluation of the staphylococcal exotoxins and their specific IgE in childhood atopic dermatitis (Nomura et al), 1999;104:441-6
Food hypersensitivity and atopic dermatitis: pathophysiology, epidemiology, diagnosis, and management (Sicherer and Sampson), 1999;104:S114-22
Increased production of macrophage migration inhibitory factor by PBMCs of atopic dermatitis (Shimizu et al), 1999;104:659-64
Itching and the atopic skin (Koblenzer), 1999;104:S109-13
Pathogenesis of atopic dermatitis (Leung), 1999;104:S99-108
Prospective, long-term safety evaluation of the H/d1/D-receptor antagonist cetirizine in very young children with atopic dermatitis (Simons), 1999;104:433-40
Treatment of atopic dermatitis: role of tacrolimus ointment as a topical noncorticosteroidal therapy (Fleischer), 1999;104:S126-30
Update on therapy of atopic dermatitis (Hanifin and Tofte), 1999;104:S123-5
Use of specific IgE in assessing the relevance of fungal and dust mite allergens to atopic dermatitis: a comparison with asthmatic and nonasthmatic control subjects (Scalabrin et al). 1999;104:1273-9

**Dermatitis, contact**

Contact sensitivity to multiple local anesthetics (Redfern), 1999;104:890-1 (Brief comm.)

***Dermatophagoides***

Quantitation of dust mites and allergen in small dust samples (Arlian et al), 1999;104:707-9 (Brief comm.)

***Dermatophagoides farinae* (Der f 1)**

Evaluation of air and dust sampling schemes for Fel d 1, Der f 1, and Der p 1 allergens in homes in the Detroit area (Peterson et al), 1999;104:348-55
Reducing relative humidity to control the house dust mite *Dermatophagoides farinae* (Arlian et al), 1999;104:852-6
Repeated intratracheal inoculation of house dust mite *(Dermatophagoides farinae)* induces pulmonary eosinophilic inflammation and IgE antibody production in mice (Yu et al), 1999;104:228-36

***Dermatophagoides pteronyssinus* (Der p 1)**

Evaluation of air and dust sampling schemes for Fel d 1, Der f 1, and Der p 1 allergens in homes in the Detroit area (Peterson et al), 1999;104:348-55

**Desensitization**

Aspirin-induced asthma: advances in pathogenesis and management (Szczeklik and Stevenson), 1999;104:5-13
Contrasting properties of albuterol stereoisomers (Page and Morley), 1999;104:S31-41
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7
Molecular and genetic basis of $\beta_2$-adrenergic receptor function (Liggett), 1999;104:S42-6
Protamine allergy as a complication of insulin hypersensitivity: a case report (Bollinger et al), 1999;104:462-5

**Dexamethasone**

Differential regulation of cytokine expression after allergen exposure of sensitized rats by cyclosporin A and corticosteroids: relationship to bronchial hyperresponsiveness (Huang et al), 1999;104:644-52

***Dianthus caryophyllus***

Occupational allergy caused by carnation *(Dianthus caryophyllus)* (Sánchez-Guerrero et al), 1999;104:181-5

**DNA**

Identification and cloning of a complementary DNA encoding a vicilin-like proprotein, Jug r 2, from English walnut kernel *(Juglans regia)*, a major food allergen (Teuber et al). 1999;104:1311-20
Immunostimulatory DNA and applications to allergic disease (Van Uden and Raz), 1999;104:902-10

**DNA vaccination**

Oligonucleotide therapy of allergic asthma (Metzger and Nyce), 1999;104:260-6

**Dogs**

Association between atopic sensitization and asthma and bronchial hyperresponsiveness in Swedish adults: pets and not mites, are the most important allergens (Plaschke et al), 1999;104:58-65
Clinical effects of air cleaners in homes of asthmatic children sensitized to pet allergens (van der Heide et al), 1999;104:447-51
Risks of early sensitization to animals (Leung et al). 1999;104:716 (Editors' choice)

**Drug allergy**
Validation of a flow cytometric assay detecting in vitro basophil activation for the diagnosis of muscle relaxant allergy (Abuaf et al), 1999;104:411-8

**Dryers**
Hot tumble drying and mite survival in duvets (Mason et al), 1999;104:499-500 (Brief comm.)

E

**Economic burden; *see* Costs and cost analysis**

**Eczema**
The clinical spectrum of atopic dermatitis (Beltrani), 1999;104:S87-98
Treatment of atopic dermatitis: role of tacrolimus ointment as a topical noncorticosteroidal therapy (Fleischer), 1999;104:126-30

**Eczema, atopic**
Association between severity of atopic eczema and degree of sensitization to aeroallergens in schoolchildren (Schäfer et al). 1999;104:1280-4
Identifying genes predisposing to atopic eczema (Forrest et al), 1999;104:1066-70

**Editorials**
Editorials, 1999;104:1128-30, 1999;104:22-27, 1999;104:26773, 1999;104:524-33, 1999;104:911-6

**Environment**
Assessment of vacuum cleaners and vacuum cleaner bags recommended for allergic subjects (Vaughan et al), 1999;104:1079-83
Atopy: immunodeviation and environment (Brehler). 1999;104:1128-30 (Editorial)
The consumer and indoor aeroallergen control (Lockey), 1999;104:914-6 (Editorial)
Effect of stress on atopic dermatitis: investigation in patients after the Great Hanshin Earthquake (Kodama et al), 1999;104:173-6
Genetic and environmental interaction in allergy and asthma (Holgate). 1999;104:1139-46
Genetics of asthma (Wiesch et al), 1999;104:895-901
Influence of interaction of environmental risk factors and sensitization in young asthmatic children (Lindfors et al), 1999;104:755-62
The intrauterine and postnatal environment (Björkstén). 1999;104:1119-27
Nasal challenge with diesel exhaust particles can induce sensitization to a neoallergen in the human mucosa (Diaz-Sanchez et al). 1999;104:1183-8
The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program (Nelson et al), 1999;104:775-85
Removal of cockroach allergen from inner-city homes (Eggleston et al), 1999;104:842-6
The role of international environmental agreements in metered-dose inhaler technology changes (Forte and Dibble). 1999;104:S217

**Enzymes**
Allergy to proteases in medical laboratory technicians: a new occupational disease? (Kempf et al), 1999;104:700-1

**Eosinophil(s)**
Apoptosis of eosinophils and lymphocytes in allergic inflammation (Ohta and Yamashita), 1999;104:14-21
CpG oligodeoxynucleotides do not require $T_{H1}$ cytokines to prevent eosinophilic airway inflammation in a murine model of asthma (Kline et al). 1999;104:1258-64
Decreased expression of angiotensin-converting enzyme in the airway epithelium of asthmatic subjects is associated with eosinophil inflammation (Roisman et al), 1999;104:402-10
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7
Eosinophilic airway inflammation in nasal polyposis (Lamblin et al), 1999;104:85-92
Eosinophil influx to the nasal airway after local, low-level LPS challenge in humans (Peden et al), 1999;104:388-94
Eosinophil involvement and serum IgE level in HIV-1-infected children (Onorato et al), 1999;104:245-7 (Brief comm.)
Fractional analysis of sequential induced sputum samples during sputum induction: evidence that different lung compartments are sampled at different time points (Gershman et al), 1999;104:322-8
Human eosinophils release matrix metalloproteinase-9 on stimulation with TNF-α (Schwingshackl et al), 1999;104:983-90
An in vitro comparison of commonly used topical glucocorticoid preparations (Stellato et al), 1999;104:623-9
Leukemia inhibitory factor is synthesized and released by human eosinophils and modulates activation state and chemotaxis (Zheng et al), 1999;104:136-44
Ligation of CD45 and the isoforms CD45RA and CD45RB accelerates the rate of constitutive apoptosis in human eosinophils (Blaylock et al). 1999;104:1244-50
Molecular basis for selective eosinophil trafficking in asthma: a multistep paradigm (Wardlaw), 1999;104:917-26 (Rostrum)
$PGE_2$ and dibutyryl cyclic adenosine monophosphate prolong eosinophil survival in vitro (Peacock et al), 1999;104:153-62
Repeatability of allergen-induced airway inflammation (Gauvreau et al), 1999;104:66-71
Repeated intratracheal inoculation of house dust mite *(Dermatophagoides farinae)* induces pulmonary eosinophilic inflammation and IgE antibody production in mice (Yu et al), 1999;104:228-36
Sputum eosinophil count to assess compliance

with corticosteroid therapy in asthma (Parameswaran et al), 1999;104:502-3 (Brief comm.)
Therapeutic efficacy of an anti-IL-5 monoclonal antibody delivered into the respiratory tract in a murine model of asthma (Shardonofsky et al), 1999;104:215-21

**Eosinophilia**
Montelukast, a leukotriene receptor antagonist, inhibits the late airway response to antigen, airway eosinohilia, and IL-5—expressing cells in Brown Norway rats (Ihaku et al). 1999;104:1147-54
Transcription factors controlling IL-5 expression (Leung et al). 1999;104:715 (Editors' choice)

**Eosinophilic gastroenteritis**
Immunopathogenesis of human gastrointestinal infection by Anisakis simplex (del Pozo et al) 1999;104:637-43
Treatment of eosinophilic gastroenteritis with montelukast (Neustrom and Friesen). 1999;104:506 (Letter)

**Eotaxin**
Elevated plasma eotaxin levels in patients with acute asthma (Lilly et al), 1999;104:786-90
Eotaxin and asthma in the emergency department (Leung et al). 1999;104:715 (Editors' choice)

**Epinephrine**
Anaphylaxis and epinephrine auto-injector training: who will teach the teachers? (Grouhi et al), 1999;104:190-3
Who will teach the teachers? (Leung et al). 1999;104:2 (Editors' choice)

**Epithelial cells**
Altered respiratory epithelial cell cytokine production in cystic fibrosis (Bonfield et al), 1999;104:72-8
Diesel exhaust particulate induces airway hyperresponsiveness in a murine model: essential role of GM-CSF (Ohta et al), 1999;104:1024-30
Effect of loratadine on nitrogen dioxide-induced changes in electrical resistance and release of inflammatory mediators from cultured human bronchial epithelial cells (Bayram et al), 1999;104:93-9
An in vitro comparison of commonly used topical glucocorticoid preparations (Stellato et al), 1999;104:623-9
Isocyanate-conjugated human lung epithelial cell proteins: a link between exposure and asthma? (Wisnewski et al), 1999;104:341-7

**Epithelium, airway**
Decreased expression of angiotensin-converting enzyme in the airway epithelium of asthmatic subjects is associated with eosinophil inflammation (Roisman et al), 1999;104:402-10

**Equipment and supplies**
Assessment of vacuum cleaners and vacuum cleaner bags recommended for allergic subjects (Vaughan et al), 1999;104:1079-83

**Ethnicity**
Pulmonary function studies in healthy Filipino adults residing in the United States (Lin and Kelso), 1999;104:338-40

**European Community Respiratory Health Survey**
The association of smoking with sensitization to common environmental allergens: results from the European Community Respiratory Health Survey (Jarvis et al), 1999;104:934-40

**Exercise**
The effect of zafirlukast on repetitive exercise-induced bronchoconstriction: the possible role of leukotrienes in exercise-induced refractoriness (Dessanges et al). 1999;104:1155-61
Montelukast versus salmeterol in patients with asthma and exercise-induced bronchoconstriction (Villaran et al), 1999;104:547-53
The natural history of exercise-induced anaphylaxis: survey results from a 10-year follow-up study (Shadick et al), 1999;104:123-7

## F

**Family size**
The magnitude of the effect of smaller family sizes on the increase in the prevalence of asthma and hay fever in the United Kingdom New Zealand (Wickens et al), 1999;104:554-8

**Fc receptor**
Altered expression and action of the low-affinity IgE receptor FcεRII (CD23) in asthmatic airway smooth muscle (Hakonarson et al), 1999;104:575-84

**Feet, warming of**
Warming of feet elevates nasal mucosal surface temperature and reduces the early response to nasal challenge with allergen (Assanasen et al), 1999;104:285-93

***Felis domesticus* (Fel d 1)**
Evaluation of air and dust sampling schemes for Fel d 1, Der f 1, and Der p 1 allergens in homes in the Detroit area (Peterson et al), 1999;104:348-55

**Fenoterol**
Deposition of fenoterol from pressurized metered dose inhalers containing hydrofluoroalkanes (Newman et al). 1999;104:S253

**Fexofenadine hydrochloride**
Double-blind, placebo-controlled study comparing the efficacy and safety of fexofenadine hydrochloride (120 and 180 mg once daily) and cetrizine in seasonal allergic rhinitis (Howarth et al), 1999;104:927-33
A double-blind, placebo-controlled trial of fexofenadine HCl in the treatment of chronic idiopathic urticaria (Finn et al), 1999;104:1071-8
The efficacy and safety of fexofenadine HCl and pseudoephedrine, alone and in combination, in seasonal allergic rhinitis (Sussman et al), 1999;104:100-6

**Fish**
Immunopathogenesis of human gastrointestinal infection by *Anisakis simplex* (del Pozo et al), 1999;104:637-43
**Flow cytometry**
Validation of a flow cytometric assay detecting in vitro basophil activation for the diagnosis of muscle relaxant allergy (Abuaf et al), 1999;104:411-8
**Fluconazole**
Treatment of late-onset asthma with fluconazole (Ward et al), 1999;104:541-6
**Food additives**
Chronic generalized pruritus caused by nitrate intolerance (Asero), 1999;104:1110-1 (Brief comm.)
**Food and Drug Administration (FDA)**
A United States regulator's perspective on the ongoing chlorofluorocarbon transition (Meyer). 1999;104:Sxx8
**Food hypersensitivity**
Another hidden food allergen (Leung et al). 1999;104:716 (Editors' choice)
Atopic dermatitis: an update (Beltrani), 1999;104:S85-6
Common allergens in avian meats (Kelso et al), 1999;104:202-4
Cross-reactions in the latex-fruit syndrome: a relevant role of chitinases but not of complex asparagine-linked glycans (Diaz-Perales et al), 1999;104:681-7
Food hypersensitivity and atopic dermatitis: pathophysiology, epidemiology, diagnosis, and management (Sicherer and Sampson), 1999;104:S114-22
Genetics and specific immune response in allergy to birch pollen and food: evidence of a strong, positive association between atopy and the HLA class II allele HLA-DR7 (Sénéchal et al), 1999;104:395-401
Identification and cloning of a complementary DNA encoding a vicilin-like proprotein, Jug r 2, from English walnut kernel *(Juglans regia),* a major food allergen (Teuber et al). 1999;104:1311-20
Supplementary feeding in maternity hospitals and the risk of cow's milk allergy: a prospective study of 6209 infants (Saarinen et al), 1999;104:457-61
**Formula, infant**
Supplementary feeding in maternity hospitals and the risk of cow's milk allergy: a prospective study of 6209 infants (Saarinen et al), 1999;104:457-61
**Fruits**
Anaphylaxis resulting from selective sensitization to *Americana* grapes (Bircher et al), 1999;104:1111-3 (Brief comm.)
Clinical role of a lipid transfer protein that acts as a new apple-specific allergen (Pastorello et al), 1999;104:1099-106
Molecular and immunologic characterization of new isoforms of the *Hevea brasiliensis* latex allergen Hev b 7: evidence of no cross-reactivity between Hev b 7 isoforms and potato patatin and proteins from avocado and banana (Sowka et al). 1999;104:1302-10
Pollen allergy in peach-allergic patients: sensitization and cross-reactivity to taxonomically unrelated pollens (Cuesta-Herranz et al), 1999;104:688-94
Spider mite allergy in apple-cultivating farmers: European red mite *(Panonychus ulmi)* and two-spotted spider mite *(Tetranychus urticae)* may be important allergens in the development of work-related asthma and rhinitis symptoms (Kim et al). 1999;104:1285-92
**Fungi**
Allergens of *Curvularia lunata* during cultivation in different media (Gupta et al), 1999;104:857-62
*Coprinus comatus* (shaggy cap) is a potential source of aeroallergen that may provoke atopic dermatitis (Fischer et al), 1999;104:836-41
HLA-DR polymorphism in allergic bronchopulmonary aspergillosis (Aron et al), 1999;104:891-2 (Brief comm.)
Molecular cloning of a major *Alternaria alternata* allergen, rAlt a 2 (Bush et al), 1999;104:665-71
New understanding of disease mechanisms: excitement and caution (Stempel), 1999;104:524-5 (Editorial)
Skin test reactivity to 2 recombinant *Aspergillus fumigatus* allergens in *A fumigatus*-sensitized asthmatic subjects allows gdn, 1999;104:601-7
Standardization of *Alternaria alternata:* extraction and quantification of Alt a 1 by using an mAb-based 2-site binding assay (Aden et al), 1999;104:128-35
Treatment of late-onset asthma with fluconazole (Ward et al), 1999;104:541-6
Use of specific IgE in assessing the relevance of fungal and dust mite allergens to atopic dermatitis: a comparison with asthmatic and nonasthmatic control subjects (Scalabrin et al). 1999;104:1273-9

## G

**Gastroenteritis**
Immunopathogenesis of human gastrointestinal infection by *Anisakis simplex* (del Pozo et al) 1999;104:637-43
**Gastroesophageal reflux (GER)**
Gastroesophageal reflux and asthma: insight into the association (Harding), 1999;104:251-9
**Gelatin allergy**
IgE reactivity to α1 and α2 chains of bovine type 1 collagen in children with bovine gelatin allergy (Sakaguchi et al), 1999;104:695-9
**Gene(s)**
Asthmatic airway biopsy specimens are more likely

to express the IL-4 alternative splice variant IL-4δ2 (Glare et al), 1999;104:978-82
Chemokines and allergic disease (Nickel et al), 1999;104:723-42
Identifying genes predisposing to atopic eczema (Forrest et al), 1999;104:1066-70
IL-4 receptor genetic polymorphism correlated with asthma severity (Leung et al). 1999;104:894 (Editors' choice)
Nuclear factor of activated T cells and YY1 combine to repress IL-5 expression in a human T-cell line (Schwenger et al), 1999;104:820-7
A variant in the gene for GM-CSF, *I117T*, is associated with atopic asthma in a Swiss population of asthmatic children (Rohrbach et al), 1999;104:247-8 (Brief comm.)

**Genetics**
Genetic and environmental interaction in allergy and asthma (Holgate). 1999;104:1139-46
Genetics and specific immune response in allergy to birch pollen and food: evidence of a strong, positive association between atopy and the HLA class II allele HLA-DR7 (Sénéchal et al), 1999;104:395-401
Genetics of asthma (Wiesch et al), 1999;104:895-901
Physician-derived asthma diagnoses made on the basis of questionnaire data are in good agreement with interview-based diagnoses and are not affected by objective tests (Barnes et al), 1999;104:791-6
The R576 IL-4 receptor α allele correlates with asthma severity (Rosa-Rosa et al), 1999;104:1008-14

**GER; *see* Gastroesophageal reflux (GER)**

**Gestation; *see* Pregnancy**

**Glucocorticoids**
Proteasome inhibition: a novel mechanism to combat asthma (Elliott et al), 1999;104:294-300
An in vitro comparison of commonly used topical glucocorticoid preparations (Stellato et al), 1999;104:623-9

**GM-CSF**
Diesel exhaust particulate induces airway hyperresponsiveness in a murine model: essential role of GM-CSF (Ohta et al), 1999;104:1024-30

**Gonadotropin-releasing hormone**
Gonadotropin-releasing hormone increases CD4+ T-lymphocyte numbers in an animal model of immunodeficiency (Jacobson et al), 1999;104:653-8

**Grapes; *see* Fruits**

**Grasses**
Highly heterogeneous Phl p 5-specific T cells from patients with allergic rhinitis differentially recognize recombinant Phl p 5 isoallergens (Würtzen et al), 1999;104:115-22
Inhibition of the seasonal IgE increase to *Dactylis glomerata* by daily sodium chloride nasal-sinus irrigation during the grass pollen season (Subiza et al), 1999;104:711-2 (Brief comm.)

**Growth factors**
TGF-β1: a key link to cow's milk allergy (Leung et al). 1999;104:893 (Editors' choice)
Transforming growth factor-β in breast milk: a potential regulator of atopic disease at an early age (Kalliomäki et al). 1999;104:1251-7
Transforming growth factor-β1 in mothers' colostrum and immune responses to cows' milk proteins in infants with cows' milk allergy (Saarinen et al), 1999;104:1093-8
Why breast-feeding does not always protect against atopic disease — some immunologic clues (Leung et al). 1999;104:1117-8 (Editors' choice)

## H

***Harmonia axyridis***
Allergic rhinoconjunctivitis caused by *Harmonia axyridis* (Asian lady beetle, Japanese lady beetle, or lady bug) (Yarbrough et al), 1999;104:704-5 (Brief comm.)

**Hay fever**
Double-blind, placebo-controlled study comparing the efficacy and safety of fexofenadine hydrochloride (120 and 180 mg once daily) and cetrizine in seasonal allergic rhinitis (Howarth et al), 1999;104:927-33
The magnitude of the effect of smaller family sizes on the increase in the prevalence of asthma and hay fever in the United Kingdom New Zealand (Wickens et al), 1999;104:554-8

**Hemopoiesis**
Reduced expression of hemopoietic cytokine receptors on cord blood progenitor cells in neonates at risk for atopy (Upham et al), 1999;104:370-5

***Hevea brasiliensis***
Cloning, expression, and characterization of recombinant Hev b 3, a *Hevea brasiliensis* protein associated with latex allergy in patients with spina bifida (Wagner et al), 1999;104:1084-92
Molecular and immunologic characterization of new isoforms of the *Hevea brasiliensis* latex allergen Hev b 7: evidence of no cross-reactivity between Hev b 7 isoforms and potato patatin and proteins from avocado and banana (Sowka et al). 1999;104:1302-10

**HFAs; *see* Hydrofluoroalkanes (HFAs)**

**Histamine**
Basophils from patients with allergic asthma show a primed phenotype (Lie et al), 1999;104:1000-7
Complement dependence of histamine release in chronic urticaria (Ferrer et al), 1999;104:169-72
Linkage between IgE receptor-mediated histamine releasability from basophils and gene marker of chromosome 11q13 (Kim et al), 1999;104:618-22
Prospective, long-term safety evaluation of the H/d1/D-receptor antagonist cetirizine in very

young children with atopic dermatitis (Simons), 1999;104:433-40

**HIV**

Cytokine profile of a long-term pediatric HIV survivor with hyper-IgE syndrome and a normal CD4+ T-cell count (Seroogy et al), 1999;104:1045-51

Eosinophil involvement and serum IgE level in HIV-1-infected children (Onorato et al), 1999;104:245-7 (Brief comm.)

Nevirapine-induced cutaneous hypersensitivity reactions and successful tolerance induction (Demoly et al), 1999;104:504-5 (Brief comm.)

**HLA**

Genetics and specific immune response in allergy to birch pollen and food: evidence of a strong, positive association between atopy and the HLA class II allele HLA-DR7 (Sénéchal et al), 1999;104:395-401

**Hormones**

Allergic airway inflammation in hypothyroid rats (Manzolli et al), 1999;104:595-600

**Humidity**

Exposure of submarine personnel to house dust mite allergens (Engelhart et al), 1999;104:242-3 (Brief com.)

Reducing relative humidity to control the house dust mite *Dermatophagoides farinae* (Arlian et al), 1999;104:852-6

**Hydrofluoroalkanes (HFAs)**

Chlorofluorocarbon to hydrofluoroalkane formulations: an industry perspective (Atkins). 1999;104:S268

The chlorofluorocarbon to hydrofluoroalkane transition: the effect on pressurized metered dose inhaler suspension stability (Brindley). 1999;104:S221

Comparative effects of hydrofluoroalkane and chlorofluorocarbon beclomethasone dipropionate inhalation on small airways: assessment with functional helical thin-section computed tomography (Goldin et al). 1999;104:S258

Concepts of establishing clinical bioequivalence of chlorofluorocarbon and hydrofluoroalkane β-agonists (Parameswaran). 1999;104:S243

Deposition of fenoterol from pressurized metered dose inhalers containing hydrofluoroalkanes (Newman et al). 1999;104:S253

Effect of formulation parameters on hydrofluoroalkane-beclomethasone dipropionate drug deposition in humans (Leach). 1999;104:S250

Foreword (Dolovich). 1999;104:S215

Moisture transport into chlorofluorocarbon-free metered dose inhalers (Williams). 1999;104:S227

The pharmacokinetics of inhaled hydrofluoroalkane formulations (Borgström). 1999;104:S246

Pressurized metered dose inhalers: chlorofluorocarbon to hydrofluoroalkane transition: valve performance (Cummings). 1999;104:S230

The role of international environmental agreements in metered-dose inhaler technology changes (Forte and Dibble). 1999;104:S217

**Hyper-IgE syndrome**

Cytokine profile of a long-term pediatric HIV survivor with hyper-IgE syndrome and a normal CD4+ T-cell count (Seroogy et al), 1999;104:1045-51

Sensitization to *Aspergillus* species in the congenital neutrophil disorders chronic granulomatous disease and hyper-IgE syndrome (Eppinger et al). 1999;104:1265-72

**Hypersensitivity**

Nevirapine-induced cutaneous hypersensitivity reactions and successful tolerance induction (Demoly et al), 1999;104:504-5 (Brief comm.)

**Hypersensitivity pneumonitis**

Hypersensitivity pneumonitis in a worker exposed to tiger nut dust (Barranco et al), 1999;104:500-1 (Brief comm.)

**Hypogammaglobulinemia**

Pulmonary abnormalities in patients with primary hypogammaglobulinemia (Kainulainen et al), 1999;104:1031-6

**Hypothalamic-pituitary-adrenal axis**

Effects of oral and inhaled corticosteroids on the hypothalamic-pituitary-adrenal axis (Li). 1999;104:714 (Letter reply)

Effects of oral and inhaled corticosteroids on the hypothalamic-pituitary-adrenal axis (Lipworth and Jackson). 1999;104:713 (Letter)

**Hypothyroidism**

Allergic airway inflammation in hypothyroid rats (Manzolli et al), 1999;104:595-600

I

**IgA**

Transforming growth factor-β in breast milk: a potential regulator of atopic disease at an early age (Kalliomäki et al). 1999;104:1251-7

**IgE**

Allergic airway inflammation in hypothyroid rats (Manzolli et al), 1999;104:595-600

Altered expression and action of the low-affinity IgE receptor FcεRII (CD23) in asthmatic airway smooth muscle (Hakonarson et al), 1999;104:575-84

Association between atopic sensitization and asthma and bronchial hyperresponsiveness in Swedish adults: pets and not mites, are the most important allergens (Plaschke et al), 1999;104:58-65

The association of smoking with sensitization to common environmental allergens: results from the European Community Respiratory Health Survey (Jarvis et al), 1999;104:934-40

Beyond breast-feeding (Peat et al), 1999;104:526-9 (Editorial)

Breast-feeding, maternal IgE, and total serum IgE in childhood (Wright et al), 1999;104:589-94

A case of IgE-mediated hypersensitivity to ceftriaxone (Romano et al), 1999;104:1113-4 (Brief comm.)
Evaluation of the staphylococcal exotoxins and their specific IgE in childhood atopic dermatitis (Nomura et al), 1999;104:441-6
IFN-υ inhibits IgE production in a murine model of allergy and in an IgE-producing human myeloma cell line (Mujtaba et al), 1999;104:1037-44
IgE binding of the recombinant allergen soybean profilin (rGly m 3) is mediated by conformational epitopes (Rihs et al). 1999;104:1293-301
IgE-binding proliferative responses and skin test reactivity to Cop c 1, the first recombinant allergen from the basidiomycete *Coprinus comatus* (Brander et al), 1999;104:630-6
IgE reactivity to α1 and α2 chains of bovine type I collagen in children with bovine gelatin allergy (Sakaguchi et al), 1999;104:695-9
Immunostimulatory oligodeoxynucleotide induces $T_{H1}$ immune response and inhibition of IgE antibody production to cedar pollen allergens in mice (Kohama et al). 1999;104:1231-8
Inhibition of the seasonal IgE increase to *Dactylis glomerata* by daily sodium chloride nasal-sinus irrigation during the grass pollen season (Subiza et al), 1999;104:711-2 (Brief comm.)
Linkage between IgE receptor-mediated histamine releasability from basophils and gene marker of chromosome 11q13 (Kim et al), 1999;104:618-22
Macadamia nut anaphylaxis: demonstration of specific IgE reactivity and partial cross-reactivity with hazelnut (Sutherland et al), 1999;104:889-90 (Brief comm.)
Nasal challenge with diesel exhaust particles can induce sensitization to a neoallergen in the human mucosa (Diaz-Sanchez et al). 1999;104:1183-8
Occupational allergy caused by carnation *(Dianthus caryophyllus)* (Sánchez-Guerrero et al), 1999;104:181-5
Pathogenesis of atopic dermatitis (Leung), 1999;104:S99-108
Pollen allergy in peach-allergic patients: sensitization and cross-reactivity to taxonomically unrelated pollens (Cuesta-Herranz et al), 1999;104:688-94
Repeated intratracheal inoculation of house dust mite *(Dermatophagoides farinae)* induces pulmonary eosinophilic inflammation and IgE antibody production in mice (Yu et al), 1999;104:228-36
Skin reactivity to inhalant allergens, total serum IgE levels, and bronchial responsiveness to methacholine are increased in parents of nonatopic asthmatic children (Kim et al), 1999;104:311-6
Specific IgG, but not specific IgE, antibodies to toluene diisocyanate-human serum albumin conjugate are associated with toluene diisocyanate bronchoprovocation test results (Park et al), 1999;104:847-51
Total serum IgE and its association with asthma symptoms and allergic sensitization among children (Sherrill et al), 1999;104:28-36
Upregulation of FcεRI on human basophils by IgE antibody is mediated by interaction of IgE with FcεRI (MacGlashan et al), 1999;104:492-8
Use of specific IgE in assessing the relevance of fungal and dust mite allergens to atopic dermatitis: a comparison with asthmatic and nonasthmatic control subjects (Scalabrin et al). 1999;104:1273-9

**IgG**

Specific IgG, but not specific IgE, antibodies to toluene diisocyanate-human serum albumin conjugate are associated with toluene diisocyanate bronchoprovocation test results (Park et al), 1999;104:847-51

**Immune response**

Genetics and specific immune response in allergy to birch pollen and food: evidence of a strong, positive association between atopy and the HLA class II allele HLA-DR7 (Sénéchal et al), 1999;104:395-401

**Immunodeficiency**

Gonadotropin-releasing hormone increases CD4+ T-lymphocyte numbers in an animal model of immunodeficiency (Jacobson et al), 1999;104:653-8

**Immunotherapy**

Clinical and immunologic effects of a rush sublingual immunotherapy to *Parietaria* species: a double-blind, placebo-controlled trial (Passalacqua et al), 1999;104:964-8
Double-blind placebo-controlled evaluation of sublingual-swallow immunotherapy with standardized *Parietaria judaica* extract in children with allergic rhinoconjunctivitis (La Rosa et al), 1999;104:425-32
Immunostimulatory oligodeoxynucleotide induces $T_{H1}$ immune response and inhibition of IgE antibody production to cedar pollen allergens in mice (Kohama et al). 1999;104:1231-8
Making immunotherapy more user friendly (Leung et al). 1999;104:894 (Editors' choice)
Pepsin-digested peanut contains T-cell epitopes but no IgE epitopes (Hong et al), 1999;104:473-7
Sublingual immunotherapy (Frew et al), 1999;104:267-70 (Editorial)

**Infant(s); *see also* Child(ren)**

Beyond breast-feeding (Peat et al), 1999;104:526-9 (Editorial)
Breast-feeding, maternal IgE, and total serum IgE in childhood (Wright et al), 1999;104:589-94
The intrauterine and postnatal environment (Björkstén). 1999;104:1119-27
Reduced expression of hemopoietic cytokine recep-

tors on cord blood progenitor cells in neonates at risk for atopy (Upham et al), 1999;104:370-5
Supplementary feeding in maternity hospitals and the risk of cow's milk allergy: a prospective study of 6209 infants (Saarinen et al), 1999;104:457-61
TGF-β1: a key link to cow's milk allergy (Leung et al). 1999;104:895 (Editors' choice)
Transforming growth factor-β in breast milk: a potential regulator of atopic disease at an early age (Kalliomäki et al). 1999;104:1251-7
Transforming growth factor-β1 in mothers' colostrum and immune responses to cows' milk proteins in infants with cows' milk allergy (Saarinen et al), 1999;104:1093-8
Why breast-feeding does not always protect against atopic disease—some immunologic clues (Leung et al). 1999;104:1117-8 (Editors' choice)

**Infection(s)**

Defensins: key players or bystanders in infection, injury, and repair in the lung? (van Wetering et al). 1999;104:1131-8 (Rostrum)
Goals of therapy in antibody deficiency syndromes (Berger), 1999;104:911-3 (Editorial)
*Mycobacterium tuberculosis* infection and the subsequent development of asthma and allergic conditions (von Hertzen et al). 1999;104:1211-4

**Inflammation**

Airway remodeling and persistent airway obstruction in asthma (Fish and Peters), 1999;104:509-16
Allergic airway inflammation in hypothyroid rats (Manzolli et al), 1999;104:595-600
Altered respiratory epithelial cell cytokine production in cystic fibrosis (Bonfield et al), 1999;104:72-8
Apoptosis of eosinophils and lymphocytes in allergic inflammation (Ohta and Yamashita), 1999;104:14-21
Aspirin-induced asthma: advances in pathogenesis and management (Szczeklik and Stevenson), 1999;104:5-13
Chemokines and allergic disease (Nickel et al), 1999;104:723-42
Decreased expression of angiotensin-converting enzyme in the airway epithelium of asthmatic subjects is associated with eosinophil inflammation (Roisman et al), 1999;104:402-10
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7
Elevated serum L-selectin levels and abnormal regulation of L-selectin expression on leukocytes in atopic dermatitis: soluble L-selectin levels indicate disease severity (Shimada et al), 1999;104:163-8
Eosinophilic airway inflammation in nasal polyposis (Lamblin et al), 1999;104:85-92
IL-2 enhances allergic airway responses in rats by increased inflammation but not through increased synthesis of cysteinyl leukotrienes (Renzi et al), 1999;104:145-52
Mast cell–T cell interactions (Mekori and Metcalfe), 1999;104:517-23
Nitric oxide regulation of asthmatic airway inflammation with segmental allergen challenge (Thomassen et al). 1999;104:1174-82
Pathogenesis of atopic dermatitis (Leung), 1999;104:S99-108
Repeatability of allergen-induced airway inflammation (Gauvreau et al), 1999;104:66-71
Repeated intratracheal inoculation of house dust mite *(Dermatophagoides farinae)* induces pulmonary eosinophilic inflammation and IgE antibody production in mice (Yu et al), 1999;104:228-36
Skeeter syndrome (Simons and Peng), 1999;104:705-7 (Brief comm.)

**Inhalation therapy**

Therapeutic efficacy of an anti-IL-5 monoclonal antibody delivered into the respiratory tract in a murine model of asthma (Shardonofsky et al), 1999;104:215-21

**Insects; *see also* Bites and stings**

Allergic rhinoconjunctivitis caused by *Harmonia axyridis* (Asian lady beetle, Japanese lady beetle, or lady bug) (Yarbrough et al), 1999;104:704-5 (Brief comm.)
Anaphylaxis to venom of the Pachycondyla species of ant (Yun et al), 1999;104:879-82

**Insulin**

Protamine allergy as a complication of insulin hypersensitivity: a case report (Bollinger et al), 1999;104:462-5

**Interferons**

CpG oligodeoxynucleotides do not require $T_{H1}$ cytokines to prevent eosinophilic airway inflammation in a murine model of asthma (Kline et al). 1999;104:1258-64
IFN-υ inhibits IgE production in a murine model of allergy and in an IgE-producing human myeloma cell line (Mujtaba et al), 1999;104:1037-44

**Interleukin-2**

IL-2 enhances allergic airway responses in rats by increased inflammation but not through increased synthesis of cysteinyl leukotrienes (Renzi et al), 1999;104:145-52

**Interleukin-4**

Adoptively transferred late allergic response is inhibited by IL-4, but not IL-5, antisense oligonucleotide (Molet et al), 1999;104:205-14, 1999;104:1188 (correction)
Asthmatic airway biopsy specimens are more likely to express the IL-4 alternative splice variant IL-4δ2 (Glare et al), 1999;104:978-82
Frequency and characterization of antigen-specific IL-4– and IL-13–producing basophils and T cells in peripheral blood of healthy and asthmatic subjects (Devouassoux et al), 1999;104:811-9

IL-4 receptor genetic polymorphism correlated with asthma severity (Leung et al). 1999;104:894 (Editors' choice)
The R576 IL-4 receptor α allele correlates with asthma severity (Rosa-Rosa et al), 1999;104:1008-14

**Interleukin-5**
Molecular basis for selective eosinophil trafficking in asthma: a multistep paradigm (Wardlaw), 1999;104:917-26 (Rostrum)
Montelukast, a leukotriene receptor antagonist, inhibits the late airway response to antigen, airway eosinohilia, and IL-5–expressing cells in Brown Norway rats (Ihaku et al). 1999;104:1147-54
Nuclear factor of activated T cells and YY1 combine to repress IL-5 expression in a human T-cell line (Schwenger et al), 1999;104:820-7
Therapeutic efficacy of an anti-IL-5 monoclonal antibody delivered into the respiratory tract in a murine model of asthma (Shardonofsky et al), 1999;104:216-21
Transcription factors controlling IL-5 expression (Leung et al). 1999;104:715 (Editors' choice)

**Interleukin-12**
CpG oligodeoxynucleotides do not require $T_{H1}$ cytokines to prevent eosinophilic airway inflammation in a murine model of asthma (Kline et al). 1999;104:1258-64

**Interleukin-13**
Frequency and characterization of antigen-specific IL-4— and IL-13—producing basophils and T cells in peripheral blood of healthy and asthmatic subjects (Devouassoux et al), 1999;104:811-9

**Isoallergens**
Highly heterogeneous Phl p 5-specific T cells from patients with allergic rhinitis differentially recognize recombinant Phl p 5 isoallergens (Würtzen et al), 1999;104:115-22

**Isocyanates**
Isocyanate-conjugated human lung epithelial cell proteins: a link between exposure and asthma? (Wisnewski et al), 1999;104:341-7

**Isoflavone reductase**
Molecular cloning and characterization of a birch polllen minor allergen, Bet v 5, belonging to a family of isoflavone reductase-related proteins (Karamloo et al), 1999;104:991-9

**Itching; *see* Pruritus**

## K

**Knemometry**
Short-term lower leg growth rate in children with rhinitis treated with intranasal mometasone furoate and budesonide (Agertort and Pedersen), 1999;104:948-52

## L

**Lactoglobulin**
The influence of initial exposure timing to β-lactoglobulin on oral tolerance induction (Kato et al), 1999;104:870-9

**LAR; *see* Late airways response (LAR)**

**Late airways response (LAR)**
Adoptively transferred late allergic response is inhibited by IL-4, but not IL-5, antisense oligonucleotide (Molet et al), 1999;104:205-14, 1999;104:1188 (correction)

**Latex**
Cloning, expression, and characterization of recombinant Hev b 3, a *Hevea brasiliensis* protein associated with latex allergy in patients with spina bifida (Wagner et al), 1999;104:1084-92
Cow's milk casein, a hidden allergen in natural rubber latex gloves (Ylitalo et al), 1999;104:177-80
Molecular and immunologic characterization of new isoforms of the *Hevea brasiliensis* latex allergen Hev b 7: evidence of no cross-reactivity between Hev b 7 isoforms and potato patatin and proteins from avocado and banana (Sowka et al). 1999;104:1302-10

**Latex-fruit syndrome**
Cross-reactions in the latex-fruit syndrome: a relevant role of chitinases but not of complex asparagine-linked glycans (Diaz-Perales et al), 1999;104:681-7

**Lectin**
Mannose-binding lectin deficiency associated with neutrophil chemotactic unresponsiveness to C5a (Ten et al), 1999;104:419-24

**Leukemia inhibitory factor**
Leukemia inhibitory factor is synthesized and released by human eosinophils and modulates activation state and chemotaxis (Zheng et al), 1999;104:136-44

**Leukocytes**
Elevated serum L-selectin levels and abnormal regulation of L-selectin expression on leukocytes in atopic dermatitis: soluble L-selectin levels indicate disease severity (Shimada et al), 1999;104:163-8

**Leukotrienes**
Association of urinary leukotriene $E_4$ excretion during aspirin challenges with severity of respiratory responses (Daffern et al), 1999;104:559-64
Churg-Strauss syndrome reported unrelated to leukotriene receptor antagonists (Leung et al). 1999;104:893 (Editors' choice)
The effect of zafirlukast on repetitive exercise-induced bronchoconstriction: the possible role of leukotrienes in exercise-induced refractoriness (Dessanges et al). 1999;104:1155-61
IL-2 enhances allergic airway responses in rats by increased inflammation but not through increased synthesis of cysteinyl leukotrienes (Renzi et al), 1999;104:145-52
Montelukast, a leukotriene receptor antagonist, inhibits the late airway response to antigen, airway eosinohilia, and IL-5–expressing cells in

Brown Norway rats (Ihaku et al). 1999;104:1147-54
Montelukast, a leukotriene receptor antagonist, reduces the concentration of leukotrienes in the respiratory tract of children with persistent asthma (Volovitz et al). 1999;104:1162-7
Prevention of severe premenstrual asthma attacks by leukotriene receptor antagonist (Nakasato et al), 1999;104:585-8
Seven cases of complete and incomplete forms of Churg-Strauss syndrome not related to leukotriene receptor antagonists (Bili et al), 1999;104:1060-5

**Levalbuterol**
Clinical experience with levalbuterol (Nelson), 1999;104:S77-84
Prospects for improved therapy in chronic obstructive pulmonary disease by the use of levalbuterol (Costello), 1999;104:S61-8

**Lipoxygenase**
Aspirin-induced asthma: advances in pathogenesis and management (Szczeklik and Stevenson), 1999;104:5-13

**Loratadine**
Effect of loratadine on nitrogen dioxide-induced changes in electrical resistance and release of inflammatory mediators from cultured human bronchial epithelial cells (Bayram et al), 1999;104:98-9

**LPS challenge**
Eosinophil influx to the nasal airway after local, low-level LPS challenge in humans (Peden et al), 1999;104:388-94

**L-selectin**
Elevated serum L-selectin levels and abnormal regulation of L-selectin expression on leukocytes in atopic dermatitis: soluble L-selectin levels indicate disease severity (Shimada et al), 1999;104:163-8

**Lung(s)**
Allergic bronchopulmonary aspergillosis with multiple *Streptococcus pneumoniae* lung abscesses: an unusual initial case presentation (Ricaurté et al), 1999;104:238-40 (Brief comm.)
Defensins: key players or bystanders in infection, injury, and repair in the lung? (van Wetering et al). 1999;104:1131-8 (Rostrum)
Fractional analysis of sequential induced sputum samples during sputum induction: evidence that different lung compartments are sampled at different time points (Gershman et al), 1999;104:322-8
Pulmonary abnormalities in patients with primary hypogammaglobulinemia (Kainulainen et al), 1999;104:1031-6

**Lung function**
Air pollution and asthma (Koenig), 1999;104:717-22
A 1-year study of salmeterol powder on pulmonary function and hyperresponsiveness to methacholine (Kemp et al). 1999;104:1189-97
Pulmonary function studies in healthy Filipino adults residing in the United States (Lin and Kelso), 1999;104:338-40
Quality of life in nasal polyposis (Radenne et al), 1999;104:79-84
The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program (Nelson et al), 1999;104:775-85

**Lung parenchyma**
Nitrotyrosine formation in the airways and lung parenchyma of patients with asthma (Kaminsky et al), 1999;104:747-54

**Lupine**
Another hidden food allergen (Leung et al). 1999;104:716 (Editors' choice)
Cross-allergenicity of peanut and lupine: the risk of lupine allergy in patients allergic to peanuts (Moneret-Vautrin et al), 1999;104:883-8

**Lymphocytes**
Apoptosis of eosinophils and lymphocytes in allergic inflammation (Ohta and Yamashita), 1999;104:14-21
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7
Increased T-cell receptor Vβ8+ T cells in bronchoalveolar lavage fluid of subjects with poorly controlled asthma: a potential role for microbial superantigens (Hauk et al), 1999;104:37-45

## M

**Macrophage migration inhibitory factor**
Increased production of macrophage migration inhibitory factor by PBMCs of atopic dermatitis (Shimizu et al), 1999;104:659-64

**Macrophages**
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7

***Malassezia furfur***
Use of specific IgE in assessing the relevance of fungal and dust mite allergens to atopic dermatitis: a comparison with asthmatic and nonasthmatic control subjects (Scalabrin et al). 1999;104:1273-9

**Mannose-binding lectin deficiency**
Mannose-binding lectin deficiency associated with neutrophil chemotactic unresponsiveness to C5a (Ten et al), 1999;104:419-24

Mast cells
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7
Mast cell–T cell interactions (Mekori and Metcalfe), 1999;104:517-23

**Mast cell tryptase**
Increased postmortem serum mast cell tryptase in a fatal anaphylactoid reaction to nonionic radiocontrast medium (Brockow et al), 1999;104:237-8 (Brief com.)

**Meat**
Common allergens in avian meats (Kelso et al), 1999;104:202-4
**Mediators, inflammatory**
Effect of loratadine on nitrogen dioxide-induced changes in electrical resistance and release of inflammatory mediators from cultured human bronchial epithelial cells (Bayram et al), 1999;104:98-9
**Menstruation**
Prevention of severe premenstrual asthma attacks by leukotriene receptor antagonist (Nakasato et al), 1999;104:585-8
**Metalloproteinases**
Balance in asthma between matrix metalloproteinases and their inhibitors (Mautino et al), 1999;104:530-3 (Editorial)
Human eosinophils release matrix metalloproteinase-9 on stimulation with TNF-α (Schwingshackl et al), 1999;104:983-90
Inhaled corticosteroids decrease subepithelial collagen deposition by modulation of the balance between matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 expression in asthma (Hoshino et al), 1999;104:356-63
**Methacholine**
A 1-year study of salmeterol powder on pulmonary function and hyperresponsiveness to methacholine (Kemp et al). 1999;104:1189-97
Skin reactivity to inhalant allergens, total serum IgE levels, and bronchial responsiveness to methacholine are increased in parents of nonatopic asthmatic children (Kim et al), 1999;104:311-6
**Microaspiration**
Gastroesophageal reflux and asthma: insight into the association (Harding), 1999;104:251-9
**Microbes**
Do microbes play a role in poorly controlled asthma? (Leung et al). 1999;104:2 (Editors' choice)
**Middleton, Elliott**
Middleton, Elliott (Ellis). 1999;104:278 (In lasting tribute)
**Milk hypersensitivity**
Cow's milk casein, a hidden allergen in natural rubber latex gloves (Ylitalo et al), 1999;104:177-80
The influence of initial exposure timing to β-lactoglobulin on oral tolerance induction (Kato et al), 1999;104:870-9
Supplementary feeding in maternity hospitals and the risk of cow's milk allergy: a prospective study of 6209 infants (Saarinen et al), 1999;104:457-61
TGF-β1: a key link to cow's milk allergy (Leung et al). 1999;104:893 (Editors' choice)
The time-course of milk antigen-induced TNF-α secretion differs according to the clinical symptoms in children with cow's milk allergy (Benlounes et al), 1999;104:863-9
Transforming growth factor-β1 in mothers' colostrum and immune responses to cows' milk proteins in infants with cows' milk allergy (Saarinen et al), 1999;104:1093-8
**Mites**
Association between atopic sensitization and asthma and bronchial hyperresponsiveness in Swedish adults: pets and not mites, are the most important allergens (Plaschke et al), 1999;104:58-65
CD80 (B7-1) and CD86 (B7-2) antigens on house dust mite—specific T cells in atopic disease function through T-T cell interactions (Nakada et al), 1999;104:222-7
Cockroach allergens and asthma in Brazil: identification of tropomyosin as a major allergen with potential cross-reactivity with mite and shrimp allergens (Santos et al), 1999;104:329-37
Exposure of submarine personnel to house dust mite allergens (Engelhart et al), 1999;104:242-3 (Brief comm.)
Hot tumble drying and mite survival in duvets (Mason et al), 1999;104:499-500 (Brief comm.)
Quantitation of dust mites and allergen in small dust samples (Arlian et al), 1999;104:707-9 (Brief comm.)
Reducing relative humidity to control the house dust mite *Dermatophagoides farinae* (Arlian et al), 1999;104:852-6
Repeated intratracheal inoculation of house dust mite *(Dermatophagoides farinae)* induces pulmonary eosinophilic inflammation and IgE antibody production in mice (Yu et al), 1999;104:228-36
Spider mite allergy in apple-cultivating farmers: European red mite *(Panonychus ulmi)* and two-spotted spider mite *(Tetranychus urticae)* may be important allergens in the development of work-related asthma and rhinitis symptoms (Kim et al). 1999;104:1285-92
Umbilical cord blood mononuclear cell proliferative response to house dust mite does not predict the development of allergic rhinitis and asthma (Chan-Yeung et al), 1999;104:317-21
Use of specific IgE in assessing the relevance of fungal and dust mite allergens to atopic dermatitis: a comparison with asthmatic and nonasthmatic control subjects (Scalabrin et al). 1999;104:1273-9
**Moisture**
Moisture transport into chlorofluorocarbon-free metered dose inhalers (Williams). 1999;104:S227
**Moisturizing**
Update on therapy of atopic dermatitis (Hanifin and Tofte), 1999;104:S123-5
**Mometasone furoate**
A dose-ranging study of mometasone furoate aqueous nasal spray in children with seasonal allergic rhinitis (Meltzer et al), 1999;104:107-14

Short-term lower leg growth rate in children with rhinitis treated with intranasal mometasone furoate and budesonide (Agertort and Pedersen), 1999;104:948-52

**Monitoring**
Microelectronic adherence monitors for metered-dose inhalers: who monitors the monitors? (Tashkin), 1999;104:22-4
Reliability of the model MC-311 MDI Chronolog (Wamboldt et al), 1999;104:53-7

**Monoclonal antibody**
Therapeutic efficacy of an anti-IL-5 monoclonal antibody delivered into the respiratory tract in a murine model of asthma (Shardonofsky et al), 1999;104:215-21

**Monocytes**
Signal transduction pathways triggered by the FcεRIIb receptor (CD23) in human monocytes lead to nuclear factor-κB activation (Ten et al), 1999;104:376-87

**Monosodium glutamate**
Monosodium glutamate sensitivity in asthma (Woessner et al), 1999;104:305-10

**Montelukast**
Montelukast, a leukotriene receptor antagonist, inhibits the late airway response to antigen, airway eosinohilia, and IL-5–expressing cells in Brown Norway rats (Ihaku et al). 1999;104:1147-54
Montelukast, a leukotriene receptor antagonist, reduces the concentration of leukotrienes in the respiratory tract of children with persistent asthma (Volovitz et al). 1999;104:1162-7
Montelukast versus salmeterol in patients with asthma and exercise-induced bronchoconstriction (Villaran et al), 1999;104:547-53
Seven cases of complete and incomplete forms of Churg-Strauss syndrome not related to leukotriene receptor antagonists (Bill et al), 1999;104:1060-5
Treatment of eosinophilic gastroenteritis with montelukast (Neustrom and Friesen). 1999;104:506 (Letter)

**Mortality**
Fatal and near-fatal asthma questionnaire: prelude to a national registry (Strunk et al), 1999;104:763-8

**Muscle(s)**
Altered expression and action of the low-affinity IgE receptor FcεRII (CD23) in asthmatic airway smooth muscle (Hakonarson et al), 1999;104:575-84

**Muscle-relaxant drugs**
Validation of a flow cytometric assay detecting in vitro basophil activation for the diagnosis of muscle relaxant allergy (Abuaf et al), 1999;104:411-8

***Mycobacterium tuberculosis***
*Mycobacterium tuberculosis* and the subsequent development of asthma (Leung et al). 1999;104:1117-8 (Editors' choice)
*Mycobacterium tuberculosis* infection and the subsequent development of asthma and allergic conditions (von Hertzen et al). 1999;104:1211-4

**Myeloma cell line, human**
IFN-υ inhibits IgE production in a murine model of allergy and in an IgE-producing human myeloma cell line (Mujtaba et al), 1999;104:1037-44

## N

**Nasal airway**
Eosinophil influx to the nasal airway after local, low-level LPS challenge in humans (Peden et al), 1999;104:388-94

**Nasal irrigation**
Inhibition of the seasonal IgE increase to *Dactylis glomerata* by daily sodium chloride nasal-sinus irrigation during the grass pollen season (Subiza et al), 1999;104:711-2 (Brief comm.)

**Nasal mucosa**
Nasal challenge with diesel exhaust particles can induce sensitization to a neoallergen in the human mucosa (Diaz-Sanchez et al). 1999;104:1183-8
Warming of feet elevates nasal mucosal surface temperature and reduces the early response to nasal challenge with allergen (Assanasen et al), 1999;104:285-93

**Nasal polyposis**
Eosinophilic airway inflammation in nasal polyposis (Lamblin et al), 1999;104:85-92
Quality of life in nasal polyposis (Radenne et al), 1999;104:79-84

**Nasal spray; *see* Administration, intranasal**

**National Center for Health Statistics**
The economic burden of asthma in US children: estimates from the National Medical Expenditure Survey (Lozano et al), 1999;104:957-63

**Nebulizers and inhalers**
Chlorofluorocarbon to hydrofluoroalkane formulations: an industry perspective (Atkins). 1999;104:S268
The chlorofluorocarbon to hydrofluoroalkane transition: the effect on pressurized metered dose inhaler suspension stability (Brindley). 1999;104:S221
Comparative effects of hydrofluoroalkane and chlorofluorocarbon beclomethasone dipropionate inhalation on small airways: assessment with functional helical thin-section computed tomography (Goldin et al). 1999;104:S258
Concepts of establishing clinical bioequivalence of chlorofluorocarbon and hydrofluoroalkane β-agonists (Parameswaran). 1999;104:S243
Deposition of fenoterol from pressurized metered dose inhalers containing hydrofluoroalkanes (Newman et al). 1999;104:S253

Effect of formulation parameters on hydrofluoroalkane-beclomethasone dipropionate drug deposition in humans (Leach). 1999;104:S250
Efficacy response of inhaled beclomethasone dipropionate in asthma is proportional to dose and is improved by formulation with a new propellant (Busse et al). 1999;104:1215-22
Foreword (Dolovich). 1999;104:S215
An in vitro analysis of the output of budesonide from different nebulizers (Barry and O'Callaghan). 1999;104:1168-73
Microelectronic adherence monitors for metered-dose inhaltera: who monitors the monitors (Tashkin), 1999;104:22-4
The output of budesonide from spacer devices assessed under simulated breathing conditions (Barry and O'Callaghan). 1999;104:1205-10
The pharmacokinetics of inhaled hydrofluoroalkane formulations (Borgström). 1999;104:S246
Preparing patients and health professionals for the transition to chlorofluorocarbon-free inhalers: the British perspective (Donohoe). 1999;104:S239
Pressurized metered dose inhalers: chlorofluorocarbon to hydrofluoroalkane transition: valve performance (Cummings). 1999;104:S230
Reliability of the model MC-311 MDI Chronolog (Wamboldt et al), 1999;104:53-7
The role of international environmental agreements in metered-dose inhaler technology changes (Forte and Dibble). 1999;104:S217
A United States regulator's perspective on the ongoing chlorofluorocarbon transition (Meyer). 1999;104:S236

**Neuropeptides**
Itching and the atopic skin (Koblenzer), 1999;104:S109-13

**Neutrophil chemotaxis**
Mannose-binding lectin deficiency associated with neutrophil chemotactic unresponsiveness to C5a (Ten et al), 1999;104:419-24

**Neutrophils**
Effect of β-agonists on inflammatory cells (Barnes), 1999;104:S10-7

**Nevirapine**
Nevirapine-induced cutaneous hypersensitivity reactions and successful tolerance induction (Demoly et al), 1999;104:504-5 (Brief comm.)

**Nitrate**
Chronic generalized pruritus caused by nitrate intolerance (Asero), 1999;104:1110-1 (Brief comm.)

**Nitric oxide**
Allergen avoidance is associated with a fall in exhaled nitric oxide in asthmatic children (Piacentini et al). 1999;104:1323-4 (Brief comm.)
Increased progenitor cell proliferation in the peripheral blood of patients with bronchial asthma: the role of nitric oxide (Wang et al), 1999;104:803-10
Modulation of nitric oxide responses in asthma by extracellular antioxidants (Crapo and Day), 1999;104:743-6 (Rostrum)
Nitric oxide regulation of asthmatic airway inflammation with segmental allergen challenge (Thomassen et al). 1999;104:1174-82
Nitrotyrosine formation in the airways and lung parenchyma of patients with asthma (Kaminsky et al), 1999;104:747-54

**Nitrogen dioxide electrical resistance**
Effect of loratadine on nitrogen dioxide-induced changes in electrical resistance and release of inflammatory mediators from cultured human bronchial epithelial cells (Bayram et al), 1999;104:93-9

**Nitrotyrosine**
Nitrotyrosine formation in the airways and lung parenchyma of patients with asthma (Kaminsky et al), 1999;104:747-54

**Nonatopic asthma**
Skin reactivity to inhalant allergens, total serum IgE levels, and bronchial responsiveness to methacholine are increased in parents of nonatopic asthmatic children (Kim et al), 1999;104:311-6

**Nuclear factor**
Nuclear factor of activated T cells and YY1 combine to repress IL-5 expression in a human T-cell line (Schwenger et al), 1999;104:820-7

**Nuclear factor-κB**
Proteasome inhibition: a novel mechanism to combat asthma (Elliott et al), 1999;104:294-300
Signal transduction pathways triggered by the FcεRIIb receptor (CD23) in human monocytes lead to nuclear factor-κB activation (Ten et al), 1999;104:376-87

**Nucleotides**
Immunostimulatory DNA and applications to allergic disease (Van Uden and Raz), 1999;104:902-10

**Nuts**
Cross-allergenicity of peanut and lupine: the risk of lupine allergy in patients allergic to peanuts (Moneret-Vautrin et al), 1999,104:883-8
Hypersensitivity pneumonitis in a worker exposed to tiger nut dust (Barranco et al), 1999;104:500-1 (Brief comm.)
Identification and cloning of a complementary DNA encoding a vicilin-like proprotein, Jug r 2, from English walnut kernel *(Juglans regia)*, a major food allergen (Teuber et al). 1999;104:1311-20
Macadamia nut anaphylaxis: demonstration of specific IgE reactivity and partial cross-reactivity with hazelnut (Sutherland et al), 1999;104:889-90 (Brief comm.)
Self-reported allergic reactions to peanut on commercial airlines (Sicherer et al), 1999;104:186-9

## O

**Occupational exposure**
Adult-onset sensitization to casein after occupational

exposure to aerosolized Tryptone powder (Vaswani et al), 1999;104:1108-9 (Brief comm.)
Allergy to proteases in medical laboratory technicians: a new occupational disease? (Kempf et al), 1999;104:700-1
Hypersensitivity pneumonitis in a worker exposed to tiger nut dust (Barranco et al), 1999;104:500-1 (Brief comm.)
Isocyanate-conjugated human lung epithelial cell proteins: a link between exposure and asthma? (Wisnewski et al), 1999;104:341-7
Occupational allergy caused by carnation *(Dianthus caryophyllus)* (Sánchez-Guerrero et al), 1999;104:181-5
Specific IgG, but not specific IgE, antibodies to toluene diisocyanate-human serum albumin conjugate are associated with toluene diisocyanate bronchoprovocation test results (Park et al), 1999;104:847-51
Spider mite allergy in apple-cultivating farmers: European red mite *(Panonychus ulmi)* and two-spotted spider mite *(Tetranychus urticae)* may be important allergens in the development of work-related asthma and rhinitis symptoms (Kim et al). 1999;104:1285-92

**ODNs; *see* Oligonucleotides (ODNs)**

***Olea europaea***
Identification, isolation, and characterization of Ole e 7, a new allergen of olive tree pollen (Tejera et al), 1999;104:797-802

**Oligodeoxynucleotide(s)**
CpG oligodeoxynucleotides do not require $T_{H1}$ cytokines to prevent eosinophilic airway inflammation in a murine model of asthma (Kline et al). 1999;104:1258-64
Immunostimulatory oligodeoxynucleotide induces $T_{H1}$ immune response and inhibition of IgE antibody production to cedar pollen allergens in mice (Kohama et al). 1999;104:1231-8
Oligodeoxynucleotides containing CpG motifs modulate the allergic $T_{H2}$ response of BALB/c mice to Bet v 1, the major birch pollen allergen (Jahn-Schmid et al), 1999;104:1015-23

**Oligonucleotides (ODNs)**
Adoptively transferred late allergic response is inhibited by IL-4, but not IL-5, antisense oligonucleotide (Molet et al), 1999;104:205-14, 1999;104:1188 (correction)
Oligonucleotide therapy of allergic asthma (Metzger and Nyce), 1999;104:260-6
Treating asthma with antisense oligonucleotides (Leung et al). 1999;104:1 (Editors' choice)

**Olive; *see* Trees**

**Oral challenges**
Monosodium glutamate sensitivity in asthma (Woessner et al), 1999;104:305-10

**Osteocalcin**
Serum osteocalcin and procollagen as markers for the risk of osteoporotic fracture in corticosteroid-treated asthmatic adults (Toogood et al), 1999;104:769-74

**Osteoporosis**
Attacking the problem of steroid-induced osteoporosis! (Leung et al). 1999;104:716 (Editors' choice)
Serum osteocalcin and procollagen as markers for the risk of osteoporotic fracture in corticosteroid-treated asthmatic adults (Toogood et al), 1999;104:769-74

**Ozone**
Increased specific airway reactivity of persons with mild allergic asthma after 7.6 hours of exposure to 0.16 ppm ozone (Kehrl et al). 1999;104:1198-204
The role of international environmental agreements in metered-dose inhaler technology changes (Forte and Dibble). 1999;104:S217

**P**

***Pachycondyla***
Anaphylaxis to venom of the *Pachycondyla* species of ant (Yun et al), 1999;104:879-82

***Parietaria***
Clinical and immunologic effects of a rush sublingual immunotherapy to *Parietaria* species: a double-blind, placebo-controlled trial (Passalacqua et al), 1999;104:964-8
Pollen asthma in the deep (D'Amato et al). 1999;104:710 (Brief comm.)

**PBMCs; *see* Peripheral blood mononuclear cells (PBMCs)**

**Peach; *see* Fruits**

**Peanut**
Airline snack foods: tension in the peanut gallery (James), 1999;104:25-7 (Editorial)
Another hidden food allergen (Leung et al). 1999;104:716 (Editors' choice)
Cross-allergenicity of peanut and lupine: the risk of lupine allergy in patients allergic to peanuts (Moneret-Vautrin et al), 1999;104:883-8
Pepsin-digested peanut contains T-cell epitopes but no IgE epitopes (Hong et al), 1999;104:473-7
Planes, passengers, and peanuts (Leung et al). 1999;104:2 (Editors' choice)
Self-reported allergic reactions to peanut on commercial airlines (Sicherer et al), 1999;104:186-9

**Pediatrics; *see* Child(ren); Infant(s)**

**Pepsin**
Pepsin-digested peanut contains T-cell epitopes but no IgE epitopes (Hong et al), 1999;104:473-7

**Peptides**
Defensins: key players or bystanders in infection, injury, and repair in the lung? (van Wetering et al). 1999;104:1131-8

**Peripheral blood mononuclear cells (PBMCs)**
Increased production of macrophage migration inhibitory factor by PBMCs of atopic dermatitis (Shimizu et al), 1999;104:659-64

**Pets; *see* Cats; Dogs**

**Plane**
- Airline snack foods: tension in the peanut gallery (James), 1999;104:25-7 (Editorial)
- Planes, passengers, and peanuts (Leung et al). 1999;104:2 (Editors' choice)
- Self-reported allergic reactions to peanut on commercial airlines (Sicherer et al), 1999;104:186-9

**Pneumonitis**
- Hypersensitivity pneumonitis in a worker exposed to tiger nut dust (Barranco et al), 1999;104:500-1 (Brief comm.)

**Pollen(s)**
- Genetics and specific immune response in allergy to birch pollen and food: evidence of a strong, positive association between atopy and the HLA class II allele HLA-DR7 (Sénéchal et al), 1999;104:395-401
- Identification, isolation, and characterization of Ole e 7, a new allergen of olive tree pollen (Tejera et al), 1999;104:797-802
- Immunostimulatory oligodeoxynucleotide induces $T_{H1}$ immune response and inhibition of IgE antibody production to cedar pollen allergens in mice (Kohama et al). 1999;104:1231-8
- Inhibition of the seasonal IgE increase to *Dactylis glomerata* by daily sodium chloride nasal-sinus irrigation during the grass pollen season (Subiza et al), 1999;104:711-2 (Brief comm.)
- Isolation and characterization of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:608-12
- Molecular cloning and characterization of a birch polllen minor allergen, Bet v 5, belonging to a family of isoflavone reductase-related proteins (Karamloo et al), 1999;104:991-9
- Molecular cloning of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:613-7
- Oligodeoxynucleotides containing CpG motifs modulate the allergic $T_{H2}$ response of BALB/c mice to Bet v 1, the major birch pollen allergen (Jahn-Schmid et al), 1999;104:1015-23
- Pollen allergy in peach-allergic patients: sensitization and cross-reactivity to taxonomically unrelated pollens (Cuesta-Herranz et al), 1999;104:688-94
- Pollen asthma in the deep (D'Amato et al). 1999;104:710 (Bried comm.)
- Reduced in vivo allergenicity of Bet v 1d isoform, a natural component of birch pollen (Arquint et al). 1999;104:1239-43
- Skin test evaluation of genetically engineered hypoallergenic derivatives of the major birch pollen allergen, Bet v 1: results obtained with a mix of two recombinant Bet v 1 fragments and recombinant Bet v 1 trimer in a Swedish population before the birch pollen season (van Hage-Hamsten et al), 1999;104:969-77

**Pollution**
- Air pollution and asthma (Koenig), 1999;104:717-22
- Nasal challenge with diesel exhaust particles can induce sensitization to a neoallergen in the human mucosa (Diaz-Sanchez et al). 1999;104:1183-8

**Polymorphism**
- HLA-DR polymorphism in allergic bronchopulmonary aspergillosis (Aron et al), 1999;104:891-2 (Brief comm.)
- IL-4 receptor genetic polymorphism correlated with asthma severity (Leung et al). 1999;104:894 (Editors' choice)
- Molecular and genetic basis of $\beta_2$-adrenergic receptor function (Liggett), 1999;104:S42-6

**Polyposis, nasal**
- Eosinophilic airway inflammation in nasal polyposis (Lamblin et al), 1999;104:85-92
- Quality of life in nasal polyposis (Radenne et al), 1999;104:79-84

**Prednisolone**
- In vivo resistance to corticosteroids in bronchial asthma is associated with enhanced phosphorylation of JUN N-terminal kinase and failure of prednisolone to inhibit JUN N-terminal kinase phosphorylation (Sousa et al), 1999;104:565-74

**Pregnancy**
- The intrauterine and postnatal environment (Björkstén). 1999;104:1119-27
- Pregnancy outcome after gestational exposure to terfenadine: a multicenter, prospective controlled study (Loebstein et al), 1999;104:953-6

**Prick-to-prick tests**
- Anaphylaxis resulting from selective sensitization to *Americana* grapes (Bircher et al), 1999;104:1111-3 (Brief comm.)

**Profilin**
- IgE binding of the recombinant allergen soybean profilin (rGly m 3) is mediated by conformational epitopes (Rihs et al). 1999;104:1293-301

**Progenitor cells**
- Increased progenitor cell proliferation in the peripheral blood of patients with bronchial asthma: the role of nitric oxide (Wang et al), 1999;104:803-10

**Prostaglandins**
- $PGE_2$ and dibutyryl cyclic adenosine monophosphate prolong eosinophil survival in vitro (Peacock et al), 1999;104:153-62

**Protamine allergy**
- Protamine allergy as a complication of insulin hypersensitivity: a case report (Bollinger et al), 1999;104:462-5

**Proteases**
- Allergy to proteases in medical laboratory technicians: a new occupational disease? (Kempf et al), 1999;104:700-1 (Brief comm.)

**Proteasome**
- Proteasome inhibition: a novel mechanism to combat asthma (Elliott et al), 1999;104:294-300

**Proteins**
Clinical role of a lipid transfer protein that acts as a new apple-specific allergen (Pastorello et al), 1999;104:1099-106
Increased allergen production in turnip *(Brassica rapa)* by treatments activating defense mechanisms (Hänninen et al), 1999;104:194-201
**Proteolytic enzymes**
Allergy to proteases in medical laboratory technicians: a new occupational disease? (Kempf et al), 1999;104:700-1 (Brief comm.)
**Pruritus**
Atopic dermatitis: an update (Beltrani), 1999;104:S85-6
Chronic generalized pruritus caused by nitrate intolerance (Asero), 1999;104:1110-1 (Brief comm.)
The clinical spectrum of atopic dermatitis (Beltrani), 1999;104:S87-98
Itching and the atopic skin (Koblenzer), 1999;104:S109-13
Pathogenesis of atopic dermatitis (Leung), 1999;104:S99-108
**Pseudoephedrine**
The efficacy and safety of fexofenadine HCl and pseudoephedrine, alone and in combination, in seasonal allergic rhinitis (Sussman et al), 1999;104:100-6

Q

**Quality of life**
Administration of budesonide once daily by means of Turbuhaler to subjects with stable asthma (McFadden et al), 1999;104:46-52
Asthma from the perspective of the patient (White and Sander), 1999;104:S47-52
Quality of life in nasal polyposis (Radenne et al), 1999;104:79-84
Validation of the standardized version of the Rhinoconjunctivitis Quality of Life Questionnaire (Juniper et al), 1999;104:364-9
**Questionnaire(s)**
Fatal and near-fatal asthma questionnaire: prelude to a national registry (Strunk et al), 1999;104:763-8
The natural history of exercise-induced anaphylaxis: survey results from a 10-year follow-up study (Shadick et al), 1999;104:123-7
Physician-derived asthma diagnoses made on the basis of questionnaire data are in good agreement with interview-based diagnoses and are not affected by objective tests (Barnes et al), 1999;104:791-6
Quality of life in nasal polyposis (Radenne et al), 1999;104:79-84
Validation of the standardized version of the Rhinoconjunctivitis Quality of Life Questionnaire (Juniper et al), 1999;104:364-9

R

**Radiocontrast medium**
Increased postmortem serum mast cell tryptase in a fatal anaphylactoid reaction to nonionic radiocontrast medium (Brockow et al), 1999;104:237-8 (Brief comm.)
Late skin test reactions to radiocontrast medium (Brockow et al), 1999;104:1107-8 (Brief comm.)
**Rats**
IL-2 enhances allergic airway responses in rats by increased inflammation but not through increased synthesis of cysteinyl leukotrienes (Renzi et al), 1999;104:145-52
Montelukast, a leukotriene receptor antagonist, inhibits the late airway response to antigen, airway eosinohilia, and IL-5–expressing cells in Brown Norway rats (Ihaku et al), 1999;104:1147-54
**Rhinitis**
Short-term lower leg growth rate in children with rhinitis treated with intranasal mometasone furoate and budesonide (Agertort and Pedersen), 1999;104:948-52
Spider mite allergy in apple-cultivating farmers: European red mite *(Panonychus ulmi)* and two-spotted spider mite *(Tetranychus urticae)* may be important allergens in the development of work-related asthma and rhinitis symptoms (Kim et al), 1999;104:1285-92
**Rhinitis, allergic**
Allergic rhinobronchitis: the asthma-allergic rhinitis link (Simons), 1999;104:534-40 (Rostrum)
Dense mapping of chromosome 12q13.12-q23.3 and linkage to asthma and atopy (Barnes et al), 1999;104:485-91
A dose-ranging study of mometasone furoate aqueous nasal spray in children with seasonal allergic rhinitis (Meltzer et al), 1999;104:107-14
The efficacy and safety of fexofenadine HCl and pseudoephedrine, alone and in combination, in seasonal allergic rhinitis (Sussman et al), 1999;104:100-6
Highly heterogeneous Phl p 5-specific T cells from patients with allergic rhinitis differentially recognize recombinant Phl p 5 isoallergens (Würtzen et al), 1999;104:115-22
Sublingual immunotherapy (Frew et al), 1999;104:267-70 (Editorial)
Umbilical cord blood mononuclear cell proliferative response to house dust mite does not predict the development of allergic rhinitis and asthma (Chan-Yeung et al), 1999;104:317-21
Warming of feet elevates nasal mucosal surface temperature and reduces the early response to nasal challenge with allergen (Assanasen et al), 1999;104:285-93
**Rhinitis, perennial**
Perennial rhinitis: an independent risk factor for asthma in nonatopic subjects, 1999;104:301-4
**Rhinobronchitis, allergic**
Allergic rhinobronchitis: the asthma-allergic rhinitis link (Simons), 1999;104:534-40 (Rostrum)

**Rhinoconjunctivitis; *see* Conjunctivitis**
**Rubber; *see* Latex**

## S

**Safety**
Double-blind, placebo-controlled study comparing the efficacy and safety of fexofenadine hydrochloride (120 and 180 mg once daily) and cetrizine in seasonal allergic rhinitis (Howarth et al), 1999;104:927-33

**Salbutamol**
The pharmacokinetics of inhaled hydrofluoroalkane formulations (Borgström). 1999;104:S246

**Salmeterol**
Montelukast versus salmeterol in patients with asthma and exercise-induced bronchoconstriction (Villaran et al), 1999;104:547-53
A 1-year study of salmeterol powder on pulmonary function and hyperresponsiveness to methacholine (Kemp et al). 1999;104:1189-97

**Salvaggio, John Edmund**
Salvaggio, John Edmund (deShazo), 1999;104:276-7 (In lasting tribute)

**Sampling**
Evaluation of air and dust sampling schemes for Fel d 1, Der f 1, and Der p 1 allergens in homes in the Detroit area (Peterson et al), 1999;104:348-55

**Samter, Max**
Samter, Max (Cohen), 1999;104:274-5 (In lasting tribute)

**Seasonal allergic rhinitis; *see* Hay fever**

**Shrimp**
Cockroach allergens and asthma in Brazil: identification of tropomyosin as a major allergen with potential cross-reactivity with mite and shrimp allergens (Santos et al), 1999;104:329-37

**Signal transduction**
Signal transduction pathways triggered by the FcεRIIb receptor (CD23) in human monocytes lead to nuclear factor-κB activation (Ten et al), 1999;104:376-87

**Skeeter syndrome**
Skeeter syndrome (Simons and Peng), 1999;104:705-7 (Brief comm.)

**Skin tests**
IgE-binding proliferative responses and skin test reactivity to Cop c 1, the first recombinant allergen from the basidiomycete *Coprinus comatus* (Brander et al), 1999;104:630-6
Late skin test reactions to radiocontrast medium (Brockow et al), 1999;104:1107-8 (Brief comm.)
Skin test evaluation of genetically engineered hypoallergenic derivatives of the major birch pollen allergen, Bet v 1: results obtained with a mix of two recombinant Bet v 1 fragments and recombinant Bet v 1 trimer in a Swedish population before the birch pollen season (van Hage-Hamsten et al), 1999;104:969-77
Standardization of *Alternaria alternata:* extraction and quantification of Alt a 1 by using an mAb-based 2-site binding assay (Aden et al), 1999;104:128-35
Total serum IgE and its association with asthma symptoms and allergic sensitization among children (Sherrill et al), 1999;104:28-36

**Smoking**
The association of smoking with sensitization to common environmental allergens: results from the European Community Respiratory Health Survey (Jarvis et al), 1999;104:934-40

**Sodium chloride**
Inhibition of the seasonal IgE increase to *Dactylis glomerata* by daily sodium chloride nasal-sinus irrigation during the grass pollen season (Subiza et al), 1999;104:711-2 (Brief comm.)

**Soybean allergy**
IgE binding of the recombinant allergen soybean profilin (rGly m 3) is mediated by conformational epitopes (Rihs et al). 1999;104:1293-301

**Spider mites**
Spider mite allergy in apple-cultivating farmers: European red mite *(Panonychus ulmi)* and two-spotted spider mite *(Tetranychus urticae)* may be important allergens in the development of work-related asthma and rhinitis symptoms (Kim et al). 1999;104:1285-92

**Spina bifida**
Cloning, expression, and characterization of recombinant Hev b 3, a *Hevea brasiliensis* protein associated with latex allergy in patients with spina bifida (Wagner et al), 1999;104:1084-92

**Spirometry**
Pulmonary function studies in healthy Filipino adults residing in the United States (Lin and Kelso), 1999;104:338-40

**Sputum**
Fractional analysis of sequential induced sputum samples during sputum induction: evidence that different lung compartments are sampled at different time points (Gershman et al), 1999;104:322-8
Sputum eosinophil count to assess compliance with corticosteroid therapy in asthma (Parameswaran et al), 1999;104:502-3 (Brief comm.)

**Staphylococcal exotoxin**
Evaluation of the staphylococcal exotoxins and their specific IgE in childhood atopic dermatitis (Nomura et al), 1999;104:441-6

**Steroids**
Administration of budesonide once daily by means of Turbuhaler to subjects with stable asthma (McFadden et al), 1999;104:46-52
Attacking the problem of steroid-induced osteoporosis! (Leung et al). 1999;104:716 (Editors' choice)
Churg-Strauss syndrome reported unrelated to leukotriene receptor antagonists (Leung et al). 1999;104:893 (Editors' choice)
Doctor, can I take my inhaled steroid only once a

day? (Leung et al). 1999;104:1 (Editors' choice)

***Streptococcus pneumoniae***

Allergic bronchopulmonary aspergillosis with multiple *Streptococcus pneumoniae* lung abscesses: an unusual initial case presentation (Ricaurté et al), 1999;104:238-40 (Brief comm.)

**Stress**

Effect of stress on atopic dermatitis: investigation in patients after the Great Hanshin Earthquake (Kodama et al), 1999;104:173-6

**Sublingual immunotherapy**

Double-blind placebo-controlled evaluation of sublingual-swallow immunotherapy with standardized *Parietaria judaica* extract in children with allergic rhinoconjunctivitis (La Rosa et al), 1999;104:425-32

Sublingual immunotherapy (Frew et al), 1999;104:267-70 (Editorial)

**Superantigens**

Increased T-cell receptor Vβ8+ T cells in bronchoalveolar lavage fluid of subjects with poorly controlled asthma: a potential role for microbial superantigens (Hauk et al), 1999;104:37-45

**Surveys; *see* Questionnaire(s)**

**Syk protein**

Syk deficiency in nonreleaser basophils (Kepley et al), 1999;104:279-84

T

**Tacrolimus**

Regulation of antigen-induced human T-lymphocyte responses by calcineurin antagonists (Pacocha et al), 1999;104:828-35

Treatment of atopic dermatitis: role of tacrolimus ointment as a topical noncorticosteroidal therapy (Fleischer), 1999;104:S126-30

**Terfenadine**

Pregnancy outcome after gestational exposure to terfenadine: a multicenter, prospective controlled study (Loebstein et al), 1999;104:953-6

**Theophylline**

Apoptosis of eosinophils and lymphocytes in allergic inflammation (Ohta and Yamashita), 1999;104:14-21

**Thyroid hormones**

Allergic airway inflammation in hypothyroid rats (Manzolli et al), 1999;104:595-600

**T lymphocytes**

Allergen-specific immune deviation from a $T_H2$ to a $T_H1$ response induced by dendritic cells and collagen type I (Brand et al), 1999;104:1052-9

Basophils, back in the spotlight (Leung et al). 1999;104:715 (Editors' choice)

Birch pollen-related foods trigger atopic dermatitis in patients with specific cutaneous T-cell responses to birch pollen antigens (Reekers et al), 1999;104:466-72

CD80 (B7-1) and CD86 (B7-2) antigens on house dust mite—specific T cells in atopic disease function through T-T cell interactions (Nakada et al), 1999;104:222-7

Cytokine profile of a long-term pediatric HIV survivor with hyper-IgE syndrome and a normal $CD4^+$ T-cell count (Seroogy et al), 1999;104:1045-51

Frequency and characterization of antigen-specific IL-4— and IL-13—producing basophils and T cells in peripheral blood of healthy and asthmatic subjects (Devouassoux et al), 1999;104:811-9

Gonadotropin-releasing hormone increases $CD4^+$ T-lymphocyte numbers in an animal model of immunodeficiency (Jacobson et al), 1999;104:653-8

Highly heterogeneous Phl p 5-specific T cells from patients with allergic rhinitis differentially recognize recombinant Phl p 5 isoallergens (Würtzen et al), 1999;104:115-22

Increased T-cell receptor Vβ8+ T cells in bronchoalveolar lavage fluid of subjects with poorly controlled asthma: a potential role for microbial superantigens (Hauk et al), 1999;104:37-45

Mast cell–T cell interactions (Mekori and Metcalfe), 1999;104:517-23

Nuclear factor of activated T cells and YY1 combine to repress IL-5 expression in a human T-cell line (Schwenger et al), 1999;104:820-7

Pathogenesis of atopic dermatitis (Leung), 1999;104:S99-108

Pepsin-digested peanut contains T-cell epitopes but no IgE epitopes (Hong et al), 1999;104:473-7

Regulation of antigen-induced human T-lymphocyte responses by calcineurin antagonists (Pacocha et al), 1999;104:828-35

**Toluene diisocyanate**

Specific IgG, but not specific IgE, antibodies to toluene diisocyanate-human serum albumin conjugate are associated with toluene diisocyanate bronchoprovocation test results (Park et al), 1999;104:847-51

**Trees**

Birch pollen-related foods trigger atopic dermatitis in patients with specific cutaneous T-cell responses to birch pollen antigens (Reekers et al), 1999;104:466-72

Clinical role of a lipid transfer protein that acts as a new apple-specific allergen (Pastorello et al), 1999;104:1099-106

Genetics and specific immune response in allergy to birch pollen and food: evidence of a strong, positive association between atopy and the HLA class II allele HLA-DR7 (Sénéchal et al), 1999;104:3935-401

Identification, isolation, and characterization of Ole e 7, a new allergen of olive tree pollen (Tejera et al), 1999;104:797-802

IgE reactivity to Api g 1, a major celery allergen, in a Central European population is based on pri-

mary sensitization by Bet v 1 (Hoffmann-Sommergruber et al), 1999;104:478-84
Immunostimulatory oligodeoxynucleotide induces $T_{H1}$ immune response and inhibition of IgE antibody production to cedar pollen allergens in mice (Kohama et al). 1999;104:1231-8
Isolation and characterization of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:608-12
Molecular cloning and characterization of a birch polllen minor allergen, Bet v 5, belonging to a family of isoflavone reductase-related proteins (Karamloo et al), 1999;104:991-9
Molecular cloning of the mountain cedar *(Juniperus ashei)* pollen major allergen, Jun a 1 (Midoro-Horiuti et al), 1999;104:613-7
Oligodeoxynucleotides containing CpG motifs modulate the allergic $T_{H2}$ response of BALB/c mice to Bet v 1, the major birch pollen allergen (Jahn-Schmid et al), 1999;104:1015-23
Reduced in vivo allergenicity of Bet v 1d isoform, a natural component of birch pollen (Arquint et al). 1999;104:1239-43
Skin test evaluation of genetically engineered hypoallergenic derivatives of the major birch pollen allergen, Bet v 1: results obtained with a mix of two recombinant Bet v 1 fragments and recombinant Bet v 1 trimer in a Swedish population before the birch pollen season (van Hage-Hamsten et al), 1999;104:969-77

***Trichophyton***
New understanding of disease mechanisms: excitement and caution (Stempel), 1999;104:524-5 (Editorial)
Treatment of late-onset asthma with fluconazole (Ward et al), 1999;104:541-6

**Trigger factors**
Update on therapy of atopic dermatitis (Hanifin and Tofte), 1999;104:S123-5

**Tropomyosin**
Cockroach allergens and asthma in Brazil: identification of tropomyosin as a major allergen with potential cross-reactivity with mite and shrimp allergens (Santos et al), 1999;104:329-37

**Tryptase, mast cell**
Increased postmortem serum mast cell tryptase in a fatal anaphylactoid reaction to nonionic radiocontrast medium (Brockow et al), 1999;104:237-8 (Brief comm.)

**Tryptone powder**
Adult-onset sensitization to casein after occupational exposure to aerosolized Tryptone powder (Vaswani et al), 1999;104:1108-9 (Brief comm.)

**Tumor necrosis factor(s)**
Human eosinophils release matrix metalloproteinase-9 on stimulation with TNF-α (Schwingshackl et al), 1999;104:983-90
The time-course of milk antigen-induced TNF-α secretion differs according to the clinical symptoms in children with cow's milk allergy (Benlounes et al), 1999;104:863-9

**Tyrosine kinases**
Syk deficiency in nonreleaser basophils (Kepley et al), 1999;104:279-84

## U

**Urinary eosinophil protein X**
Allergen avoidance at high altitude and urinary eosinophil protein X (Piacentini et al), 1999;104:243-4 (Brief comm.)

**Urticaria**
Antigen-specific recall urticaria to a peptide-based vaccine (Rinn et al), 1999;104:240-2 (Brief comm.)
Complement dependence of histamine release in chronic urticaria (Ferrer et al), 1999;104:169-72
A double-blind, placebo-controlled trial of fexofenadine HCl in the treatment of chronic idiopathic urticaria (Finn et al), 1999;104:1971-8

## V

**Vaccination(s)**
Antigen-specific recall urticaria to a peptide-based vaccine (Rinn et al), 1999;104:240-2 (Brief comm.)
IgE reactivity to α1 and α2 chains of bovine type 1 collagen in children with bovine gelatin allergy (Sakaguchi et al), 1999;104:695-9
Oligonucleotide therapy of allergic asthma (Metzger and Nyce), 1999;104:260-6

**Venom; *see* Bites and stings**

## W

**Walnut; *see* Nuts**

**Wheezing**
Total serum IgE and its association with asthma symptoms and allergic sensitization among children (Sherrill et al), 1999;104:28-36

## Y

**YY1**
Nuclear factor of activated T cells and YY1 combine to repress IL-5 expression in a human T-cell line (Schwenger et al), 1999;104:820-7

## Z

**Zafirlukast**
The effect of zafirlukast on repetitive exercise-induced bronchoconstriction: the possible role of leukotrienes in exercise-induced refractoriness (Dessanges et al). 1999;104:1155-61
Seven cases of complete and incomplete forms of Churg-Strauss syndrome not related to leukotriene receptor antagonists (Bill et al), 1999;104:1060-5